



# Professional Power & Wireless Solutions

2015-2016

# IDX Products - The Standard for Professionals Worldwide

IDX is the premier manufacturer of Lithium Ion battery power systems, HD wireless transmission solutions, and V-Mount technology for the broadcast, digital cinema, professional video, professional audio and portable electronics industries. Our mission is to develop products that professionals can use with confidence and convenience. By offering the highest quality of product and world-class service, our customers are given the power to operate their equipment as expected and concentrate solely on capturing and creating.

As pioneers in the use of Lithium Ion, IDX was the first to produce Lithium Ion NP batteries to meet the needs of camera users who demanded more power and less battery weight. IDX built on that award-winning Lithium Ion NP success by introducing the ENDURA System with revolutionary features such as PowerLink—the exclusive ability to stack a second battery to double the power while maintaining intelligent battery communication.

The evolution continued with the introduction of the ENDURA High Load Series featuring high draw capabilities and excellent performance in a range of extreme environments. Continuing the innovation, advancements in battery reliability and versatility has been made with the DUO and CUE Series batteries.

IDX provides true global power and ENG solutions. We are committed to our customers with a sales support and service program second to none through our locations in Europe, Asia, Middle East Asia, Japan and the Americas. With a network of sales associates worldwide, we provide our customers with sales and technical assistance as well as service support and answers for their applications.

From our award winning battery systems to our ground-breaking wireless HD video transmission systems, you can be confident that IDX and its products will continue to meet the ever-changing demands and challenges of our industry. All IDX products are designed to international safety, EMC and environmental specifications and standards. You can be sure that any IDX product you choose will stand the test of time.

## Globally Aware



IDX's own "Globally Aware" mark on our products symbolizes our attention to the environmental impact of modern electronic equipment. The "Globally Aware" mark embodies a series of battery cells in the shape of a flower. Through the IDX internal system that supports this mark, we continually monitor our design and production methods to reduce the impact of toxic waste materials on our environment. We were proud to reach RoHS compliance in advance of the 2006 legal requirement. We continue to expend significant efforts improving our operations and procedures to minimizing our environmental impact on the planet.

## IDX Certified to "ISO 14001" Standard

Since 2005, IDX Company, Ltd. in Japan has received ISO 14001:2004 the Environmental Management System certification. This standard assures IDX's ongoing commitment to achieving the best environmental practices at every level.



Certificate No. AJA05/9085  
Sites Registered: 6-28-11, Shukugawara,  
Tama-ku, Kawasaki City, Kanagawa, Japan  
Date of Original Registration: July 20, 2005  
Date of Renewed Registration: June 30, 2014

## Commitment to Recycling

As part of our corporate and social responsibility, IDX is licensed to recycle all rechargeable Lithium Ion batteries in coordination with the non-profit organization Rechargeable Battery Recycling Corporation (RBRC). IDX will receive any rechargeable Lithium Ion battery for recycling at our address below. We will do the rest for you.



Shipping Address:  
IDX System Technology, Inc.  
19001 Harborgate Way, Suite 105  
Torrance, CA 90501  
Attn: Recycling



# Corporate Development

- 1989 Establishes in Tokyo, Japan, to develop and manufacture batteries for broad cast video.
- 1993 Head office moves to Kawasaki City, Japan.
- 1994 IDX System Technology, Inc. is established in San Diego, U.S.A. and IDX Technology Europe, Ltd. is established in London, England.
- 1996 Introduction of the NP-L40 battery, the world's first Lithium Ion NP battery.
- 1998 IDX opens a service center at the 1998 Nagano Olympics.
- 1999 Establishes IDX Taiwanese Office.
- 2000 Launches the ENDURA System with the ENDURA-50.
- 2002 IDX USA moves to Torrance, California.
- 2003 IDX HQ Shipment and Logistics Center is established.
- 2004 BMS Battery Management System is introduced and IDX HQ moves to current site in Kawasaki, Japan.
- 2005 IDX Company, Ltd. acquires ISO 14001 accreditation and establishes IDX Hong Kong office. Analog wireless video transmission system is developed.
- 2007 Development of the ENDURA ELITE, our highest capacity ENDURA battery. IDX Europe moves to Langley, England.
- 2008 Introduction of HD wireless video transmission system CW-5HD. IDX USA relocates to new Torrance facility.
- 2009 IDX unveils LED on-board light X5-Lite, and E-HL9 Series batteries; ENDURA ELITE expands protocol compatibility.
- 2010 V-Mount product advancements include power base EB-424L, wireless mount A-MWR and shoulder adaptor A-CA74E.
- 2011 Expansion of V-Mount P-V2 Plate Series allowing 12V down-conversion for small profile camcorders & HD/SLR systems.
- 2012 CW-1 Wireless HDMI Transmission System is added to IDX's lineup of Wireless HD Transmission Systems and IDX receives letter of quality assurance certification from Sanyo/Panasonic.
- 2013 IDX introduces CW-7 Wireless HD-SDI Transmission System, DUO-series batteries, and ET-PV2BM & A-E2EOSC V-mount Adaptor plates for popular Canon and Blackmagic camcorders.
- 2014 IDX celebrates its 25th anniversary with the addition of the CUE series batteries, high load capable E-HL10DS battery & CW-3 Wireless 3G-SDI Transmission System.
- 2015 IDX introduces the CW-F25, the first wireless H.264 25Mbps transmitter with return video, camera control, intercom, Ethernet I/O & tally, all built-in to one box.

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# IDX Innovation & Engineering

Together with an established reputation for providing premium products, our competitive advantage comes from unique model designs and features built into every one of our products.

## The Lithium Ion Advantage

Merging the lightest weight with the most powerful battery chemistry available, IDX excels in combining high watt-hour capacity with low physical weight. IDX battery cells are balanced for matching voltage and impedance levels and are carefully selected for electrical load, longer life cycles, temperature tolerances and cost. Unlike other battery materials, there is no 'memory' effect on the battery's life span and our Lithium Ion cells expend a low discharge rate. Environmentally safer and friendlier, our batteries do not require special procedures for clean disposal when battery life is completely diminished.

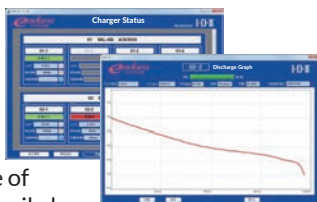
## Power Base Mode

Power Base technology allows the AC-100, VL-2SPLUS and EB-424L to become totally portable and AC free power stations. In normal operation the AC-100 uses AC power; however, in Power Base mode, it becomes a mobile power station, using an ENDURA battery (or two in PowerLink) to provide DC power. Power Base is also featured on the VL-2SPLUS 2-channel charger. On this particular model, DC output comes from both channels simultaneously, even if two E-HL9 batteries are used in PowerLink.



## Battery Management System (BMS)

A growing number of broadcasters are using IDX batteries for their day-to-day filming and production. The IDX Battery Management System (BMS) is the only software tool on the market to perform a level of care that increases battery life. BMS can monitor the condition of the E-HL9 and ENDURA ELITE by recording data such as model and serial number, the date of first charge, number of charge and discharge cycles, number of high loads and operating temperatures. The advantage of BMS is that information can easily be recorded and retrieved via a USB connection to a PC.



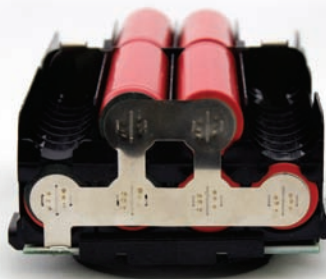
## PowerLink

When shooting on location, there may be moments when extra power and greater capacity is needed from the battery. To solve the problem, PowerLink technology was introduced to the ENDURA battery range. The original system of its kind, PowerLink is a unique feature of the E-HL9 series that allows users to double up on available capacity, stacking a second battery at the back of a camera or other video sources. With two E-HL9 batteries, an 87Wh battery can be doubled to 174Wh.



## Safety and Reliability

The safety and reliability of our products is paramount. IDX batteries and chargers are designed to integrate into regular location work and withstand high usage, so customers can be confident that they will work time after time without fail. IDX Lithium Ion batteries use only the highest grade Lithium Ion cells. Both battery and charger models contain intelligent self-protection circuits that safeguard against common causes of misuse such as over current, over charge, over discharge and exposure to extreme temperatures.



## Digi-View

Digi-View is an electrical connection system that allows the remaining capacity of an E-HL9 and ENDURA ELITE battery to be displayed in the camera viewfinder. Cameras that do not have a standard V-Mount connection can still get the benefit of Digi-View by using the P-V2 and P-VS2 adaptor plate.

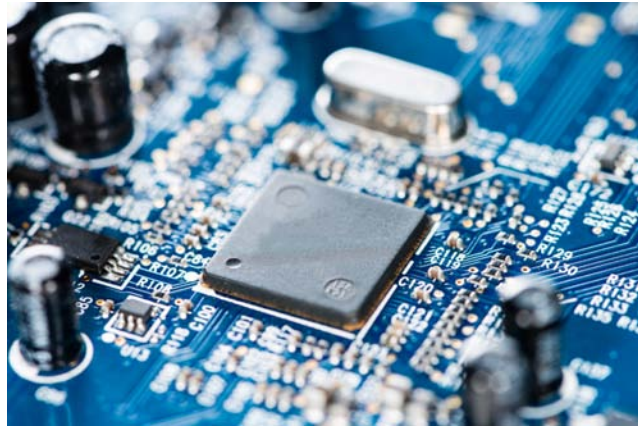


# Support & Warranty

## Terms of Warranty

IDX System Technology Inc. warrants its products to be free from defects in workmanship and materials for a period of three years on ENDURA Chargers, one year on 7.4V batteries, and two years on all other products from the date of purchase. If the products are determined by IDX to be defective or fail to meet minimum published specifications, they will be replaced free of charge at IDX's sole discretion. Except for such repair or replacement, IDX will not be held responsible for any direct, indirect incidental, consequential cost or damage. Should there be a warranty claim, you may be asked to produce your proof of purchase with the returned merchandise; therefore it is recommended that the buyer keep their receipt. Products returned for repair and not covered by warranty will be charged for at IDX's standard repair rates. This limited warranty is to be interpreted under the laws of the State of California, U.S.A.

IDX products should be used only with IDX approved equipment. The use of unauthorized equipment may result in the limitation or voidance of IDX product warranties. IDX does not authorize, condone, recommend, or otherwise assume any liability or responsibility resulting from the use of any battery, charger or accessory not made or sold by IDX. Please use only IDX original equipment.



## Lithium Ion Air Transportation Regulations

Please refer to the IDX USA website for important information regarding the transportation of Lithium Ion batteries based on ICAO/IATA 56th Edition of IATA DGR. The latest rules affect how Lithium Ion batteries are carried on-board passenger aircraft as well as the way they are classified, labeled and packed when transported by air cargo.

[www.idxtek.com/lithium-ion-transportation/](http://www.idxtek.com/lithium-ion-transportation/)



## Web-Based Documentation and Interaction - [www.idxtek.com](http://www.idxtek.com)

Detailed information about various technical resources is immediately and easily accessible on our United States website. Product introductions, press releases, technical support downloads and direct customer inquiries are among some of our site's selections our customers can review, reference and use to their benefit.

# ENDURA Batteries

Unrivaled V-Mount with Premium Cells

ENDURA Lithium Ion batteries are offered in a variety of capacities to power the full range of broadcast and cinema production equipment. The worldwide standard and industry-preferred V-Mount has been refined for over a decade setting a new standard for the industry.



## ENDURA High Load Series - Built to withstand high power demands

Utilizing highly durable and reliable lithium ion cell technology, the ENDURA High Load Series batteries are capable of withstanding a constant 10A/120W draw - perfect for power hungry camera and LED lighting systems.

### E-HL9

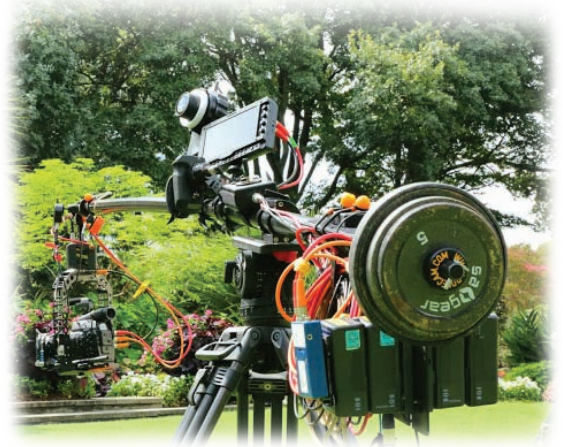
MSRP: \$480

87Wh Li-ion V-Mount Battery with PowerLink & Digi-View



- **Capacity:**  
87Wh 14.6V, 6.0Ah
- **Max Draw:**  
10A / 120W
- **Dimensions:**  
3.35 (W) x 5.51 (H) x 2.28 (D) inches
- **Weight:**  
1.63 lbs.
- **Protection Circuitry:**  
Over-charge, over-discharge, over-current, & Thermal protection

### PowerLink



With its high capacity and high load discharge capability of 10A/120W, the E-HL9 is an all-round top performer. Our exclusive PowerLink connects two E-HL9 batteries for a total power capacity of 174Wh. The 5 LED power status indicator gives an accurate reading of capacity in 20% increments. The E-HL9 supports Digi-View for reading battery levels in many of today's camera viewfinders. Battery Management System (BMS) can be used for enhanced diagnostics and a comprehensive review of the battery's history of use.

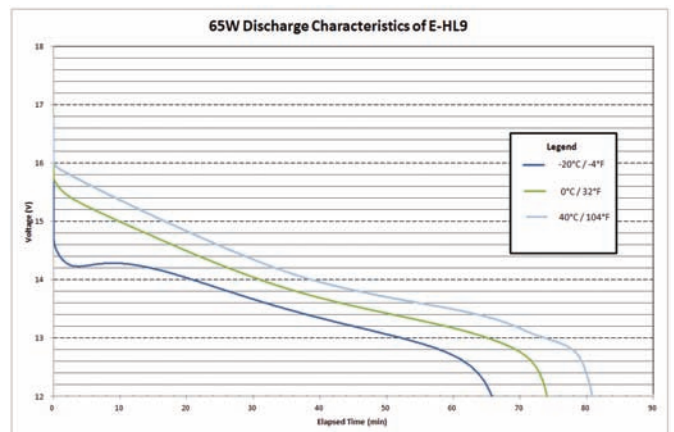
### Resilient to Extreme Environments



Photo: Ambrose Weingart  
Location: Grasslands National Park, Canada

Advanced cells with low temperature discharge capabilities allow the E-HL9 to operate in subzero (-4°F) environments.

### Discharge Characteristics



Discharge characteristics are based on a new battery pack



The ENDURA System is the cornerstone of the IDX battery philosophy--providing a lightweight, powerful battery that can be universally used on the widest range of equipment with in-built intelligence and monitoring. It's a unified product line where all batteries, chargers and accessories are compatible and interchangeable. By design, an ENDURA solution can be found to suit every customer need--from the high powered DUO-150 to the compact CUE-D75. The ENDURA series is the most advanced Lithium Ion battery and charging system available.

## E-HL10DS

MSRP: \$330

96Wh Li-ion V-Mount Battery with D-Tap



- **Capacity:**  
96Wh 14.4V, 6.6Ah
- **Max Draw:**  
10A / 120W
- **Dimensions:**  
3.82 (W) x 5.75 (H) x 2.30 (D) inches
- **Weight:**  
1.76 lbs.
- **Protection Circuitry:**  
over-charge, over-discharge, over-current

### Steadicam Power



The E-HL10DS is an economical pack with a 96Wh power capacity. Its 10A/120W high load discharge capability translates into a 50% discharge improvement over similar models in its capacity range. Its 4 LED power indicator gives operators an immediate confirmation of the power level. Weighing in at 1.76 lbs., the E-HL10DS is perfect for high-draw applications where weight matters. The E-HL10DS comes equipped with one built-in 50W D-Tap connector for ancillary accessory power. The new internal design of the battery pack cradles each cell securely to maximize the safety of the battery.

## ENDURA ELITE

MSRP: \$775

136Wh Li-ion Power Cartridge V-Mount Battery with Digi-View



- **Capacity:**  
136Wh 14.8V, 9.2Ah
- **Max Draw:**  
9.2A / 110W
- **Dimensions:**  
3.94 (W) x 6.69 (H) x 2.76 (D) inches
- **Weight:**  
2.76 lbs.
- **Protection Circuitry:**  
over-charge, over-discharge, over-current, & thermal protection

### Travel Friendly



Remove one or both cartridges for IATA compliant air travel.

The ENDURA ELITE is the ideal battery for today's generation of UHD ENG/EFM cameras. At 136Wh capacity, this 'elite' battery was created with a focus on the demands of high power consumption. Two identical cartridges are housed inside a rugged outer casing allowing easy exchange and reducing the cost of replacement batteries. The unique twin power cartridge design ensures it is fully compliant for air transportation and is the only Li-ion battery over 100Wh that is IATA flight friendly. The ENDURA ELITE supports Digi-View and i-Trax Battery Management System and is compatible on all IDX ENDURA V-Mount chargers. PC-14 is the dual replacement power cartridge set that replenishes and restores full battery capacity.



# ENDURA Batteries

ENDURA - Revolutionizing Professional Camera Power

Since its introduction in 2000, the ENDURA system of batteries, chargers and accessory equipment has grown to be the single most popular battery system used in the professional broadcast and cinema industries worldwide.

*Endura*  
**Duo**

## ENDURA DUO Series - Built in Cooperation with Sanyo/Panasonic

The DUO Series batteries were the first professional camera batteries to implement cell-cradle technology, two D-Taps and one USB power outputs. With these features, the DUO Series batteries became the safest and most versatile professional camera batteries.

### DUO-150

MSRP: \$570

146Wh Li-ion V-Mount Battery with 2 x D-Tap and USB power



- **Capacity:**  
146Wh 14.8V, 9.8Ah
- **Max Draw:**  
10A / 120W
- **Dimensions:**  
3.82 (W) x 5.75 (H) x 2.32 (D) inches
- **Weight:**  
2.31 lbs.
- **Protection Circuitry:**  
over-charge, over-discharge, over-current, & thermal protection

#### Remote Location EFP



The DUO-150 is a high-performance Li-ion V-Mount battery with a 146Wh capacity and ability to handle 10A/120W loads. The 146Wh capacity provides extended run times while remaining under the 160Wh IATA limit for carry-on baggage. The DUO-150 comes equipped with two built-in D-Tap outputs and single built-in USB output.

### DUO-95

MSRP: \$380

91Wh Li-ion V-Mount Battery with 2 x D-Tap and USB power



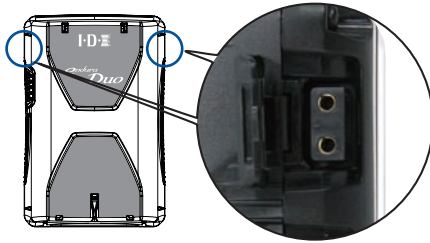
- **Capacity:**  
91Wh 14.4V, 6.3Ah
- **Max Draw:**  
6.3A / 76W
- **Dimensions:**  
3.82 (W) x 5.75 (H) x 2.32 (D) inches
- **Weight:**  
1.76 lbs.
- **Protection Circuitry:**  
over-charge, over-discharge, over-current, & thermal protection

#### Sports Production



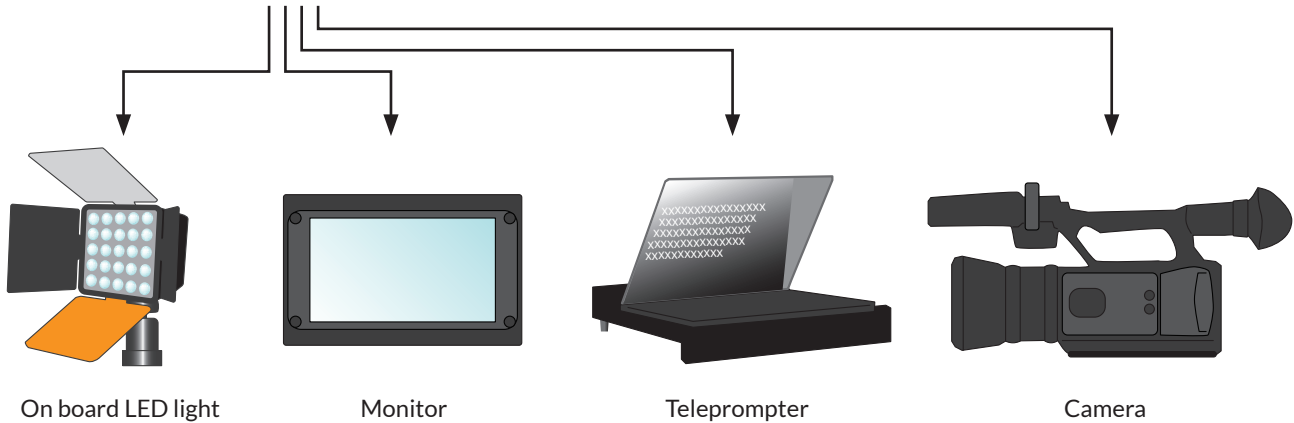
The DUO-95 is aimed at the emerging smaller form factor broadcast and cinema cameras. It is lightweight but still capable of taking a robust 6.3A/76W load. There are dual built-in D-Tap outputs and a single built-in USB output to power the peripherals necessary to get the best from today's camera systems. The DUO-95 provides more outputs for all of your powering needs.

## DUO-150/DUO-95 D-Tap Connector

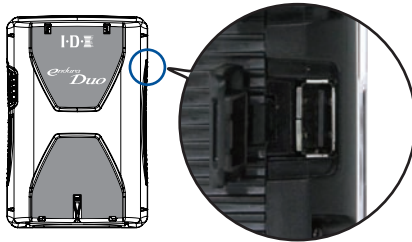


The DUO Series batteries are equipped with (2) D-Tap power outputs. Designed to power low draw equipment, such as on board LED lights and monitors, each D-Tap can handle up to a 50W draw\*

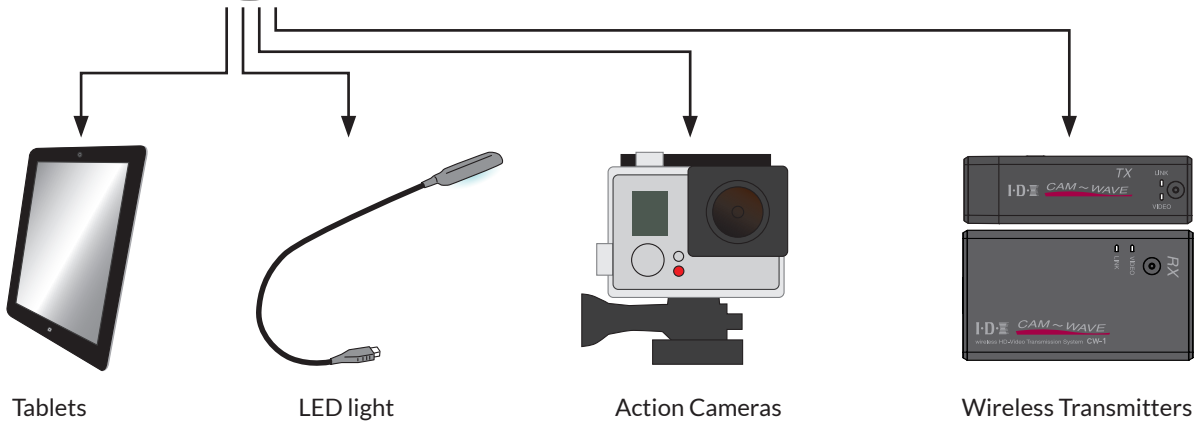
\*Each D-Tap is rated for 50W draws; however, the total draw applied to the battery should not exceed the battery's max discharge rate.



## DUO-150/DUO-95 USB Connector



The DUO Series batteries are equipped with (1) USB A-Type connector for powering 5V / 1A USB devices.



## DUO-150/DUO-95 Cell-cradle Module

The DUO Series batteries were the first professional batteries to utilize a cell-cradle module. This module provides additional cell support by securely cradling each cell. The module efficiently dissipates heat and provides structural support for the battery as a whole. Additionally, the PCB is isolated from the cells resulting in greater reliability and safety.



- Securely cradles each cell
- Efficient heat sink
- Structural support
- Isolated PCB

# ENDURA Batteries

The Worldwide Standard

From feature film productions to independent documentaries, the ENDURA battery system powers cameras and peripheral equipment of all sizes in all corners of the world.

*Endura  
Cue*

## ENDURA CUE Series - All-around Advantages

The ENDURA CUE battery range has been designed to meet the most stringent PSE regulations for electrical and mechanical safety - essential for work and travel abroad. Thanks to the latest advances made in microchip technology and improvements in battery design and build, the range provides all the benefits today's broadcasters and cinematographers need at a more affordable price.

### CUE-D150

MSRP: \$450

146Wh Li-ion V-Mount Battery with 1 x D-Tap



- **Capacity:**  
146Wh 14.8V, 9.8Ah
- **Max Draw:**  
10A / 120W
- **Dimensions:**  
3.82 (W) x 5.75 (H) x 2.30 (D) inches
- **Weight:**  
2.20 lbs.
- **Protection Circuitry:**  
over-charge, over-discharge, over-current

Portable Motion Control



The CUE-D150 V-Mount battery answers to the power demands of digital cinematography and broadcast where high current loads of 10A/120W are standard. Housing a robust 146Wh capacity, the CUE-D150 features a built-in 50W D-Tap and 4 LED power status display. The new internal design securely cradles each cell to maximize the safety of the battery.

### CUE-D95

MSRP: \$285

91Wh Li-ion V-Mount Battery with 1 x D-Tap



- **Capacity:**  
91Wh 14.4V, 6.3Ah
- **Max Draw:**  
6.3A / 76W
- **Dimensions:**  
3.82 (W) x 5.75 (H) x 2.30 (D) inches
- **Weight:**  
1.76 lbs.
- **Protection Circuitry:**  
over-charge, over-discharge, over-current

LED Panel Lighting



With a capacity of 91Wh and a maximum discharge rate of 6.7A/76W, the CUE-D95 is ideal for LED lighting and small to midsize cameras. The CUE-D95 is equipped with a built-in 50W D-Tap for powering ancillary gear. Built to the highest standards of quality and reliability, the CUE-D95 features a new internal pack design, which securely cradles each cell for improved safety and reliability.



# Leading the way in V-Mount Technology

IDX has refined the V-Mount for over a decade setting a new standard for the industry.



## CUE-D75

MSRP: \$245

73Wh Li-ion V-Mount Battery with 1 x D-Tap



- **Capacity:**  
73Wh 14.8V, 4.9Ah
- **Max Draw:**  
4.9A / 59W
- **Dimensions:**  
3.82 (W) x 5.75 (H) x 1.51 (D) inches
- **Weight:**  
1.37 lbs.
- **Protection Circuitry:**  
Over-charge, over-discharge, over-current

### Handheld Gimbal Operations

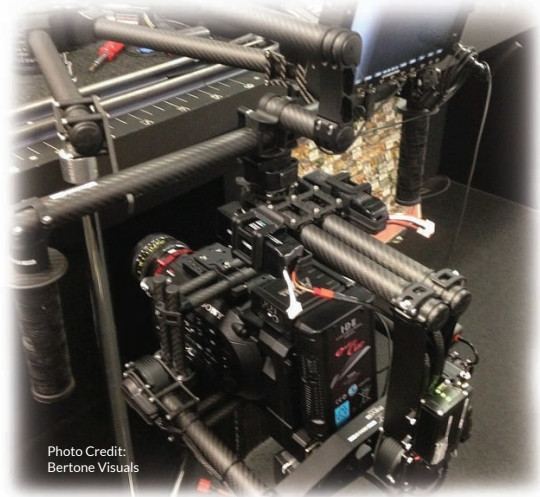


Photo Credit:  
Bertone Visuals

Providing 73Wh of DC power, the CUE-D75 can withstand 4.9A/59W loads – ideal for low power consuming cameras and accessories. With its slim profile and light weight, the CUE-D75 fits perfectly on hand held and aerial gimbal systems. A built-in D-Tap capable of taking a 50W load is available for powering accessories. The CUE-D75 features a 4 LED power status indicator to accurately display the battery capacity status. Built to the highest standards of quality and reliability, the CUE-D75's new internal pack design securely cradles each cell to enhance the safety of the battery.

### Enhanced Cell-cradle Module

Like the DUO series batteries, the CUE series and E-HL10DS have a cell-cradle module; however, the CUE and E-HL10DS batteries have an enhanced module that provide greater cell support and heat dissipation.

Rigid Structure

Rounded Ribs

Interlocking Module Layers

Fitted Cell Cradles

Rounded Base

Cross Section Ribs

Isolated PCB



# ENDURA Chargers

Efficient and Versatile Lithium Ion Chargers

IDX ENDURA chargers have been designed to meet all ranges of charging requirements - from compact portable use all the way to fully simultaneous, multi-chemistry chargers with Power Base, intelligent display, and battery management monitoring.



## VL-PVC1

MSRP: \$275

1-Channel V-Plate Portable Charger



- **AC Input Voltage:**  
100~240V 50/60Hz
- **DC input charge voltage:**  
12V +/- 5%
- **Charge current:**  
1A
- **Dimensions:**  
3.3 (W) x 1.1 (H) x 5.6 (D) inches
- **Weight:**  
0.79 lbs.

Charge on the go with the VL-PVC1. When it has to be portable and compact for crew work or when keeping travel gear light, the VL-PVC1 delivers the small profile of our V-Plate combined with robust charging for all IDX ENDURA V-Mount batteries.

## VL-2PLUS

MSRP: \$495

2-Channel Sequential Charger with 60W DC Output



- **AC Input Voltage:**  
100~240V 50/60Hz
- **Chemestries:**  
Li-ion, Ni-Cd
- **Charge current:**  
Li-ion: 2.3A, Ni-Cd: 1.9A
- **Dimensions:**  
5.94 (W) x 3.11 (H) x 8.35 (D) inches
- **Weight:**  
2.09 lbs.

The lightweight and durable VL-2PLUS delivers sequential 2-channel charging with unrivaled efficiency and reliability. With an integrated 60W 4-pin XLR power supply, you can power equipment when battery operation is not necessary.

## VL-2SPLUS


MSRP: \$710

2-Channel Simultaneous Charger with 100W DC Output



- **AC Input Voltage:**  
100~240V 50/60Hz
- **Chemestries:**  
Li-ion, Ni-Cd
- **Charge current:**  
Li-ion: 4A (1 Battery), 3A (2 Batts)  
Ni-Cd: 2.5A
- **Dimensions:**  
5.94 (W) x 3.11 (H) x 8.84 (D) inches
- **Weight:**  
2.43 lbs.

VL-2SPLUS provides simultaneous 2-channel charging and 100W DC output via its 4pin XLR connector. The charger also offers 'Power Base' mode — charged ENDURA batteries output DC power through its 4-pin XLR connector, making it a power station if AC mains are unavailable, or disconnected.



All ENDURA Chargers come standard with the industry's best 3 year warranty.

## VL-4S

MSRP: \$995

4-Channel Simultaneous Quick Charger



- **AC Input Voltage:**  
100~240V 50/60Hz
- **Chemistries:**  
Li-ion, Ni-Cd
- **Charge current:**  
Li-ion: 3A (3 Batteries), 2.3A (4 Batts)  
Ni-Cd: 1.9A
- **Dimensions:**  
6.14 (W) x 6.02 (H) x 11.34 (D) inches
- **Weight:**  
6.83 lbs.

The VL-4S is a fully simultaneous 4-channel charger, housed in a high-impact, poly carbonate enclosure with a recessed power switch and carrying handle. Quick and powerful charging make the VL-4S the perfect choice for broadcast and production facilities with a high battery usage. Each channel is operated independently so batteries can be placed on charge in any order and at any time.

## VL-4Si

MSRP: \$1195

4-Channel Simultaneous Quick Charger with Intelligent Display



- **AC Input Voltage:**  
100~240V 50/60Hz
- **Chemistries:**  
Li-ion, Ni-Cd
- **Charge current:**  
Li-ion: 3A (3 Batteries), 2.3A (4 Batts)  
Ni-Cd: 1.9A
- **Dimensions:**  
6.14 (W) x 6.02 (H) x 11.34 (D) inches
- **Weight:**  
7.05 lbs.

The VL-4Si is a fully simultaneous, high speed 4-channel charger. To monitor the charge status of each individual battery, an LCD display and control panel is located on the front of the unit. Together with IDX's Battery Management System software, the VL-4Si - via PC interface - provides detailed battery data to help manage and extend the life of a customer's battery inventory. This is ideal for network operations and rental facilities.

## VAL-4Si

MSRP: \$1795

8-Channel (4+4) Simultaneous Quick Charger with Intelligent Display and Discharge Function



- **AC Input Voltage:**  
100~240V 50/60Hz
- **Chemistries:**  
Li-ion, Ni-Cd, Ni-MH
- **Charge current:**  
Li-ion: 3A (3 Batteries), 2.3A (4 Batts)  
Ni-Cd: 1.9A
- **Dimensions:**  
6.30 (W) x 7.87 (H) x 11.34 (D) inches
- **Weight:**  
9.70 lbs.

The VAL-4Si is one of the most advanced chargers on the market, capable of charging up to 8 batteries simultaneously with 4 standard V-Mount channels plus an additional 4-channel charging base. Monitoring the status of each battery is an LCD display and control panel located on the front of the unit. Joined with IDX's BMS software, the VAL-4Si - via PC interface - provides battery data on history and condition of the batteries as a means to help manage and extend overall battery life. The VAL-4Si is a multi-chemistry charger, charging NP-style batteries and additional ENDURA batteries using optional A-E2NP assemblies.



# V-Plate Adaptors

Rugged and precise V-Plate engineering interface cameras and video equipment to V-Mount.

The universal design of the IDX V-Plate provides adaption of most cameras and DC powered equipment to the popular V-Mount system allowing use of ENDURA batteries and accessories.



## P-V2

MSRP: \$102

V-Mount Plate w/D-Tap & Digi-view



- **Weight:**  
0.36 lbs
- **Features Include:**  
Single Unregulated 12~16.8V 50W D-Tap for powering accessories & Digi-View for on-camera battery capacity readout

## P-VS2

MSRP: \$115

V-Mount Plate w/D-Tap & Digi-View & Synchron



- **Weight**  
0.40 lbs
- **Features Include:**  
Single Unregulated 12~16.8V 50W D-Tap for powering accessories & Digi-View for on-camera battery capacity readout + Synchron for on-camera light sync feature

## P-V257

MSRP: \$199

V-Mount plate w/Dual D-Taps & Digi-View

**Features Include:** Dual D-Taps(one on each side) - one switchable regulated 5V or 7.3V D-Tap + one unregulated 12~16.8V D-Tap + Digi-View

## P-V212

MSRP: \$199

V-Mount plate w/Dual D-Taps & Digi-View

**Features Include:** Dual D-Taps(one on each side) - one regulated 12V D-Tap + one unregulated 12~16.8V D-Tap + Digi-View

## P-V284

MSRP: \$199

V-Mount plate w/Dual D-Taps & Digi-View

**Features Include:** Dual D-Taps(one on each side) - one regulated 8.4V D-Tap + one unregulated 12~16.8V D-Tap + Digi-View

P-V2 & P-VS2 mounted on back & side of camera



P-V257/P-V212/P-V284  
Weight: 0.40 lbs



## A-AB2E

MSRP: \$175

### 3-Stud Mount to V-Mount Adaptor Plate



- **Weight:**  
0.44 lbs
- **Features Include:**  
Ability to attach V-Mount batteries to power 3-Stud mount setups

The A-AB2E adaptor locks onto any 3-stud mounting plate and provides a temporary or transitional conversion of the 3-stud to V-Mount configuration. The flexibility of the converter allows all ENDURA batteries to be used on 3-stud mounting systems.

## MD-NBV

MSRP: \$199

### ENDURA V-Mount Plate with 5 D-Taps



- **Weight:**  
0.70 lbs
- **Features Include:**  
Five unregulated 12~16.8V D-Taps to power accessories

Designed to be sandwiched between a V-Mount camera and battery or mounted on a V-Dock, the MD-NBV has five (5) D-Taps that allows you to power accessories such as onboard monitors, lights, wireless receivers, media recorders and more. Max draw from each D-Tap is 24W/2A(each D-Tap is independently fused) and the total Max draw of the plate is 120W/10A.

## TA-PV2USB

MSRP: \$169

### V-Mount Plate w/D-Tap & USB Output



- **Weight:**  
0.40 lbs
- **Features Include:**  
One unregulated 12~16.8V D-Tap to power accessories & one 5V USB output to power additional accessories, smart phones and tablets

The TA-PV2USB allows direct mounting of IDX ENDURA batteries and is made to power and charge USB devices. Included on the side of the plate is one unregulated 12~16.8V D-Tap power output for powering additional accessories.

## A-MT2V

### Male V-Plate w/Digi-View



- **Weight:**  
0.24 lbs
- **Features include:**  
Digi-view for battery capacity readout

The A-MT2V is a male V-Mount Adaptor plate designed to make equipment adapt to V-Mount.

# ET-PV2UR

MSRP: \$199

V-Mount Adaptor Plate for Blackmagic URSA & URSA Mini



- **Weight:**  
0.38 lbs
- **Features Include:**  
Unregulated 12~16.8V D-Tap to power accessories

The ET-PV2UR is designed to attach directly to the rear of the URSA & URSA Mini camera bodies. Based on the popular IDX V-Plate chassis, the ET-PV2UR allows direct mounting of any IDX ENDURA Li-ion battery.

## ET-PV2UR on Blackmagic URSA



# ET-PV2BM

MSRP: \$137

V-Mount Adaptor Plate for Blackmagic Cinema Camera



- **Weight:**  
0.46 lbs
- **Features Include:**  
Unregulated 12~16.8V D-Tap to power accessories

The ET-PV2BM allows direct mounting of any IDX ENDURA Li-ion battery, while an integral DC cable supplies battery power directly from the battery to the Blackmagic Cinema Camera.

## ET-PV2BM on Blackmagic Cinema



# A-E2EOSC

MSRP: \$335

V-Mount Adaptor Plate for Canon C100/300/500



- **Weight:**  
0.46 lbs
- **Features Include:**  
Unregulated 12~16.8V D-Tap to power accessories

The A-E2EOSC allows direct mounting of any IDX ENDURA Li-ion battery, while an integral DC cable supplies battery power directly from the battery to the Canon C100, C300 or C500 camera.

## A-E2EOSC on Canon C300



# TA-PV2J650

MSRP: \$199

V-Mount Adaptor Plate for JVC GY-HM600 & 650



- **Weight:**  
0.46 lbs
- **Features include:**  
Unregulated 12~16.8V D-Tap to power accessories

The TA-PV2J650 allows direct mounting of any IDX ENDURA Li-ion battery, while an integral DC cable supplies battery power directly from the battery to the JVC GY-HM600 or GY-HM650 camera.

## TA-PV2J650 on JVC GY-HM650





# Accessories

IDX offers a wide range of accessories that adapt to virtually all professional setups



## A-E2DT-2

MSRP: \$288

V-Mount to V-Mount Adaptor Plate



- **Features:**  
Unregulated 12~16.8V  
50W D-Tap

## A-CP(A)

MSRP: \$149

Versatile Cheese Plate and 15mm mini clamps



- **Features:**  
Multiple 1/4" and 3/8"  
screw holes available  
for mounting

## TA-CA(214/38)

MSRP: \$207

Versatile Camera Support Accessory



- **Features:**  
Ball joint clamp and  
dual cheese plate  
design allow a variety  
of mounting  
configurations

## A-E241E

MSRP: \$485

Dual V-Mount Battery Adaptor



- **Features:**  
Ability to run batteries  
in parallel + Digi-View  
for on-camera battery  
capacity readout

## SD-1E

MSRP: \$295

ENDURA V-Mount to XLR Adaptor w/Belt Loop



- **Features:**  
7.2V & 12~16.8V  
4-Pin XLR Output

## A-E2V75

MSRP: \$188

V-Mount 75mm VESA Adaptor Bracket for Monitors



- **Features:**  
Mountable on 75mm  
VESA mount +  
12V~16.8V 4-Pin XLR  
power output

## A-E2LCD-2

MSRP: \$320

ENDURA V-Mount Adaptor for LCD Monitors



- **Features:**  
Mountable on 100mm  
VESA mount +  
12~16.8V 4-Pin XLR  
power output

## A-E2BT24V

MSRP: \$699

ENDURA Battery Adaptor for Panasonic 24V Monitors



- **Features:**  
5V and 24V 4-Pin XLR  
cable for Panasonic  
BT-3DL2550 and  
BT-LH2550 monitors

## NBV-XLR

MSRP: \$115

4-Pin XLR to V-Mount Plate



- **Features:**  
4-Pin XLR DC Input &  
unregulated 12~16.8V  
50W D-Tap

## C-EB(XLR)

MSRP: \$175

ENDURA V-Mount to XLR Adaptor w/Belt Loop



- **Features:**  
12~16.8V 4-Pin XLR  
Output

# Accessories

IDX accessories adapt to everything from basic productions to high end broadcast and cinema productions.



## A-MWR

MSRP: \$335

Wireless Receiver Mounting Bracket



- **Weight:**  
0.22 lbs
- **Dimensions:**  
4.53 (W) x 6.02 (H) x 4.02-6.02 (D) inches



The A-MWR attaches directly to a V-Mount type camcorder without using screws and is adjustable to up to four positions. The A-MWR's unique design allows dual stacking of ENDURA batteries, while simultaneously allowing you to attach a wireless receiver or HDD to either side of the bracket. Specialty plates P-V212 and P-V257 can also be mounted in place of the standard P-V2 plate for even more flexibility, providing an additional 2-Pin D-Tap to power additional equipment such as HDD recorders.

## EB-424L

MSRP: \$1290

4-Position Power Base Station



- **Weight:**  
2.87 lbs
- **Dimensions:**  
3.15 (W) x 6.50 (H) x 8.54 (D) inches

Compact and field portable, the EB-424L is a V-Mount power base station created for high-end broadcast camera systems that have specific energy and voltage requirements. This model has two output terminals - industry standard 12V XLR and professional 24V LEMO; both voltages can be used either separate or simultaneously. The EB-424L can support up to 696Wh of power with eight ENDURA E-HL9 batteries used in PowerLink dual stack mode.

## X10-LITE/ X10-LITE-S

MSRP: \$295

High Performance LED On-board Camera Light



- X10-LITE: Compatible with SSL-JVC batteries
- X10-LITE-S: Compatible with Sony L-Series batteries
- **Weight :**  
1.03 lbs
- **Dimensions:**  
4.25 (W) x 5.90 (H) 5.07 (D) inches
- **Package Includes:**  
D-Tap power connector, camera shoe, carrying case

The X10-Lite is a professional LED on-board camera light utilizing powerful LED technology outputting 1450 lux (1m).



# DC Cables

With IDX adaptor cables, professionals can use one battery system for all levels of production. These options offer the ability to power 5V, 7.2V, 8.4V and 12V camcorders when used with the regulated P-V2 series plates.

## C-ZLPRO

MSRP: \$150

DC Cable for Canon CINE-SERVO Lens



- **Features:**  
Provides DC power via D-Tap to Canon's CINE-SERVO lens. Cable is 12.5" in length and provides sufficient length without being cumbersome.

## C-CANC

MSRP: \$95

DC Cable for Canon XL-H1/XHG1/XHA1



- **Features:**  
Adaptor cable for use with Canon XL-H1/XHG1 cameras. Must use with IDX P-V257 plate for voltage conversion.

## C-SONC

MSRP: \$95

DC Cable for Sony HVR Series



- **Features:**  
Adaptor cable for use with Sony HVR series cameras. Must use with IDX P-V284 plate for voltage conversion.

## C-PANCP2

MSRP: \$95

DC Cable for Panasonic HPX170/HVX200



- **Features:**  
Adaptor cable for use with Panasonic HPX170/HVX200 series cameras. Must use with IDX P-V257 plate for voltage conversion.

## C-EOSC

MSRP: \$160

DC Cable for Canon EOS 7D/5D Mark II



- **Features:**  
Adaptor cable for use with Canon EOS 7D/5D Mark II cameras. Must use with IDX P-V257 plate for voltage conversion.

## C-JVCC

MSRP: \$80

DC Cable for JVC GY-HM100 Series



- **Features:**  
Adaptor cable for use with JVC GY-HM100 series cameras. Must use with IDX P-V257 plate for voltage conversion.

## C-PIN

MSRP: \$80

DC Cable for Sony PMW-EX1/EX-3 Series



- **Features:**  
Adaptor cable for use with Sony PXW-FS7 & PMW-EX1/EX3 series cameras. Must use with IDX P-V212 plate for voltage conversion.

## C-PANCAVC

MSRP: \$95

DC Cable for HMC150/HMC45 series



- **Features:**  
Adaptor cable for use with Panasonic HMC 100 series cameras. Must use with IDX P-V257 plate for voltage conversion.



# NP-Style

IDX offers the highest quality NP-Style batteries, chargers and accessories. Ideal for camera, audio and other equipment using NP-chassis power.

## PROSeries

### NP-L7S

MSRP: \$249

68Wh NP-Style Lithium-ion Battery



- **Capacity:** 68Wh 14.8V, 4.6Ah
- **Max Draw:** 4.8A / 53W
- **Dimensions:** 7.28 (W) x 2.83 (H) x .98 (D) inches
- **Weight:** 1.01 lbs.
- **Protection Circuitry:** over-charge, over-discharge, over-current, & thermal protection

The NP-L7S is the economical choice for an NP-style battery. With high reliability and a long cycle life, the NP-L7S features an integrated 3 step LED power indicator to display the battery capacity status.

### Sound Bag Power



Photo: Fernando Delgado  
Company: Stickman Sound, Inc.

### JL-2PLUS

MSRP: \$435

2-Channel Sequential NP-Style Charger with 60W Power Supply



- **Charge Current:** 2.3A(Li-ion) ,1.9A(Ni-Cd)
- **Input Voltage:** AC 100~240V, 50/60Hz
- **Dimensions:** 5.94 (W) x 2.76 (H) x 8.35 (D) inches
- **Weight:** 1.76lbs.
- **Compatible batteries:** All IDX NP-style Li-ion/Ni-Cd batteries and all IDX ENDURA Li-ion batteries via C-NP2E charge adaptor

The JL-2PLUS will charge Lithium-ion and Ni-Cd NP-style batteries in any combination. It will charge the first battery connected to either channel, then automatically begin charging the second battery after the first is fully charged. With the advantage of an integrated 60W power supply, additional equipment such as lighting and other ancillary equipment can be safely powered.

### Sound Bag Charging



Photo: Fernando Delgado  
Company: Stickman Sound, Inc.

### C-NP2E

MSRP: \$155

Adaptor to charge ENDURA batteries on NP-Style Charger



- **Cable length:** 50cm / 19.69 inches
- **Compatible chargers:** All IDX NP-style Lithium-ion chargers



# NP-Style Holders

Dual NP Holders are available with a V-mount, Direct Mount or 3-stud Mount. Dual NP holders are ideal lightweight solutions for any high draw, hot swappable power setup.

## PROSeries

### NH-201

MSRP: \$345

Dual NP Battery Holder with Digi-View



- **Dimensions:**  
3.82 (W) x 7.87 (H) x  
2.95 (D) inches
- **Weight:**  
0.66lbs
- **Additional Features:**  
Digi-view for  
on-camera battery  
capacity readout

### NH-202

MSRP: \$405

Dual NP Battery Holder with D-Tap & Digi-view



- **Dimensions:**  
3.82 (W) x 7.87 (H) x  
3.34(D) inches
- **Weight:**  
0.81 lbs
- **Additional Features:**  
2-Pin D-tap for powering  
additional accessories &  
Digi-view for on-camera  
battery capacity readout

### NH-201V

MSRP: \$375

Dual NP Battery Holder with V-Mount



- **Dimensions:**  
3.82 (W) x 7.87 (H) x  
3.36 (D) inches
- **Weight:**  
0.88lbs

### NH-204

MSRP: \$405

Dual NP Battery Holder with 4-Pin XLR & Digi-view + Synchron



- **Dimensions:**  
5.31 (W) x 7.87 (H) x  
3.35 (D) inches
- **Weight:**  
0.79 lbs
- **Additional Features:**  
4-Pin XLR for powering  
equipment & Digi-view for  
on-camera battery capacity  
readout + Synchron for  
on-board camera light sync

### NH-2013S

MSRP: \$385

Dual NP Battery Holder with 3-Stud Mount



- **Dimensions:**  
3.82 (W) x 7.87 (H) x  
3.36 (D) inches
- **Weight:**  
0.88 lbs

### NH-204V

MSRP: \$445

Dual NP Battery Holder with V-Mount & 4-Pin XLR + Synchron



- **Dimensions:**  
5.31 (W) x 7.87 (H) x  
3.35 (D) inches
- **Weight:**  
0.79 lbs
- **Additional Features:**  
4-Pin XLR for powering  
equipment & Synchron for  
on-board camera light sync

# 7.4V Battery System

High Capacity Lithium Ion Battery Choices for 7.4V Camcorders

## PROSeries

### LC-2A

MSRP: \$155

7.4V Battery Charger for Panasonic, Canon & Sony batteries



- **Charge Rate:**  
1.9A
- **Input Voltage:**  
AC-Adaptor: 100-240V,  
60/50Hz automatic  
DC Input: 12-19V (36W max)
- **Dimensions**  
4.92 (W) x 1.57 (H) x 4.37 (D)  
inches
- **Weight:**  
0.38lbs

Designed with interchangeable battery interface plates, the 2-Channel LC-2A can simultaneously charge a range of 7.4V Canon, Panasonic, and Sony batteries. The LC-2A comes equipped with thermal monitoring and quick-charge safeguard - ensuring that charging will automatically stop when the battery is fully charged.

#### Interchangeable Plates



**Panasonic**  
SL-VBD50, VW-VBG6/  
BG250, VW-VBD55/58



**Canon**  
BP-955, BP-975, LP-E6



**Sony**  
All L-Series batteries

### LC-2J

MSRP: JVC Exclusive

7.4V Battery Charger for JVC batteries



- **Charge Rate:**  
1.6A
- **Input Voltage:**  
AC-Adaptor: 100-240V,  
60/50Hz automatic  
DC Input: 14-19V (36W max)
- **Dimensions**  
5.51 (W) x 1.81 (H) x 5.07 (D)  
inches
- **Weight**  
0.58 lbs

The LC-2J is a two channel simultaneous quick charger for the IDX 7.4V SSL-JVC50 & SSL-JVC75 batteries. Universal AC input for worldwide use and its automatic safety protection features include low voltage charging, thermal monitoring and a quick-charge safeguard - ensuring that charging will automatically stop when the battery is fully charged.

### SL-VBD50

MSRP: \$96

7.4V Panasonic Battery



- **Capacity:**  
37Wh, 4900mAh
- **Dimensions:**  
1.44 (W) x 3.21 (H) x  
2.58 (D) inches
- **Weight:**  
0.55 lbs.
- **Compatible Cameras:**  
AG-HPX170/250/255  
AG-DVX100  
AG-HVX200

### SSL-JVC75

MSRP: JVC Exclusive

7.4V JVC Battery w/X-Tap



- **Capacity:**  
55Wh, 7350mAh
- **Dimensions:**  
1.69 (W) x 3.16 (H) x  
2.77 (D) inches
- **Weight:**  
0.77 lbs.
- **Compatible Cameras:**  
GY-HM600/650  
GY-HMQ10/30  
GY-LS300
- **X-Tap Connector:**  
6.0V - 8.4V power  
output for accessories

### SSL-JVC50

MSRP: JVC Exclusive

7.4V JVC Battery



- **Capacity:**  
37Wh, 4900mAh
- **Dimensions:**  
2.77 (W) x 1.69 (H) x  
1.85 (D) inches
- **Weight:**  
0.49 lbs.
- **Compatible Cameras:**  
GY-HM600/650  
GY-HMQ10/30  
GY-LS300



# Power Supplies

AC adaptors designed for the rigors of location work

Rugged, compact and designed for reliability and long life, IDX offers a choice of 60W, 100W and 210W single and multiple output power supplies. Each model in this series is a workhorse utility power source. The PSU design suppresses 'low ripple noise' to reduce signal interference and 'fall down' overload protection so that it will automatically shut down and recover if an excessive load is drawn.

## IA-60a

MSRP: \$305

60W AC Adaptor Power Supply



- **Output DC Voltage:**  
13.8V, 60W. Adjustable 12.5 - 15V
- **Dimensions:**  
3.54 (W) x 1.97 (H) x 7.48 (D) inches
- **Weight:**  
1.87 lbs approx.



The IA-60a is a single output 60W power supply with a universal AC100~240V input for worldwide operation. The IA-60a features a lightweight, rugged metal enclosure, adjustable output voltage and automatic overload protection.



## IA-200a

MSRP: \$535

100W AC Adaptor Power Supply



- **Output DC Voltage:**  
13.8V, 100W (max each XLR)
- **Dimensions:**  
4.53 (W) x 1.97 (H) x 10.63 (D) inches
- **Weight:**  
2.87 lbs. approx.

The IA-200a is a dual output 100W power supply with a universal AC100~240V input. The IA-200a features two XLR outputs which will draw 100W in any combination from two channels, or 100W from a single channel.

## IA-300a

MSRP: \$805

210W AC Adaptor Power Supply



- **Output DC Voltage:**  
13.8V, 100W (max each XLR), Adjustable 13.5V -16.5V
- **Dimensions:**  
4.92 (W) x 2.95 (H) x 9.65 (D) inches
- **Weight:**  
4.41 lbs. approx.

The IA-300a is a 210W power supply and features three XLR outputs which will draw 210W in any combination from one, two or three output channels. Adjustable output voltage and automatic overload protection are key feature sets.

# V-Mount Power Supply

Versatile V-Mount AC adaptor designed for tabletop or on-camera use



## AC-100

MSRP: \$395

### AC Mode

100W V-Mount Camera AC Adaptor



- **Output Voltage:**  
14.5V DC
- **Dimensions:**  
3.94 (W) x 7.70 (H) x 2.81 (D) inches
- **Weight:**  
1.87 lbs.
- **Works Best With:**  
RED Epic, Arri Alexa, Blackmagic URSA,  
Panasonic Varicam 35, LED panels, and more.



A multi-functional AC adaptor, the AC-100 can directly mount to a V-mount camera or used individually away from the camera. The unit runs silently at low loads with a temperate-activated low noise fan at higher loads. This model also has a recessed power switch and comes with a 90-degree AC cord to prevent accidental cord detachment.

## V-Mount Camera AC Adaptor

Unique 100W V-Mount power supply that fits directly onto the back of the camera for both AC power supply and battery back-up function.



### PowerBase Mode

'Power Base' mode allows an operator to connect ENUDRA batteries to the AC-100 making it a power source independent of an AC main supply. This allows the AC-100 to become a battery fail-safe station to the camera and can be advantageous should the main AC become disconnected or unavailable--maintaining critical production shooting regardless of the immediate power situation.

# Wireless HD Transmission

Unleashing Your Creativity

IDX CAM~WAVE systems have facilitated camera operators' ability to freely move and capture content without limiting their creativity. Pioneering professional uncompressed HD transmitters since 2007, IDX continues to strive to innovate and manufacture products to meet all your wireless transmission needs.

**CAM~WAVE**

## CAM~WAVE - Versatile wireless performance

IDX CAM~WAVE Wireless HD Transmission Systems utilize Dynamic Frequency Selection(DFS) to operate on less crowded frequencies within the license exempt 5GHz spectrum. This minimizes wireless interference and provides optimal wireless performance. In addition, the DFS function allows legal indoor and outdoor use in countries where radio frequency regulations are strict.

### CW-3

MSRP: \$1880

3G-SDI /HD-SDI Uncompressed Wireless HD Transmission



- Transmits uncompressed full HD 1080p/60
- YCbCr 4:2:2 10-bit
- WHDI (MIMO/OFDM) technology
- 5GHz frequency band (license free)
- Dynamic Frequency Selection (DFS)
- Zero frame delay; less than 1ms latency
- Transmit HD video as far as 115m/380ft (distance may vary)
- Conforms to major technical & environmental standards including FCC, CE, and RoHS specifications

#### Included Accessories

- 2 x Omni-directional antennas
- 2 x BNC right angle connectors
- 2 x BNC SDI cables
- 2 x D-Tap to DC plug power cables
- 1 x AC power adaptor
- 1 x 1/4" 20 mounting screw
- 1 x Shoe to 1/4" 20 screw mount

### Supporting Live-events, Sports, Television & Cinema Productions

The CW-3 is a wireless transmission system primarily designed for wireless video monitoring purposes for television and feature film productions; however, sports, medical, and live-event applications have adopted the technology thanks to its high quality and affordability. With its compact size, the CW-3 fits perfectly with virtually all applications involving professional handheld, or small form factor camera setups, camera cranes, and camera stabilizing systems like Steadicam. The CW-3 is a short distance real-time transmission system that has gained tremendous credibility on television and feature film productions with its reliable transmission and superior image quality.





# Wireless HD Transmission

Achieve Greater with IDX Technology

IDX wireless technology has evolved from short-range transmission to long-range transmission with the addition of the CW-F25.

*CAM ~ WAVE*



## CW-F25

3G-SDI /HD-SDI 25Mbps H.264 Wireless HD Transmission

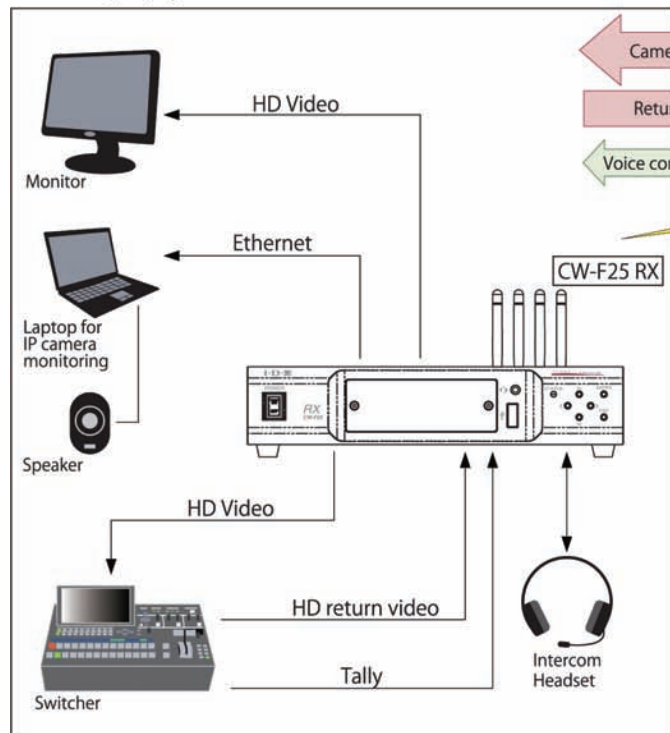
Designed for on air video contribution, the new CW-F25 wireless HD-SDI transmission system offers superior image quality transmitting H.264 High Profile video at up to 25Mbps. Adaptive variable bit rate prevents sudden disconnection and range is enhanced by the use of beam forming technology operating over 4 x 4 MIMO antennas. Supported across the link are return video, intercom, tally, RS422 remote and Ethernet I/O giving the remote camera operator the features of a wired link in a license free product.



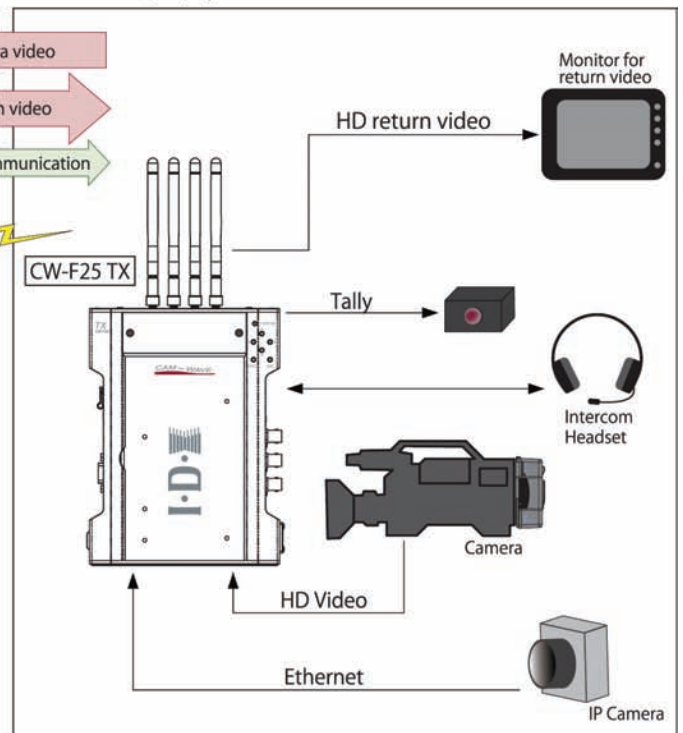
### 4x4 MIMO & Beamforming

The CW-F25 utilizes 4x4 MIMO and beamforming technologies. The combination of these technologies optimizes the signal phase and relative amplitude, which results in a transmission distance of 2km.

#### Receiver(RX) System chart



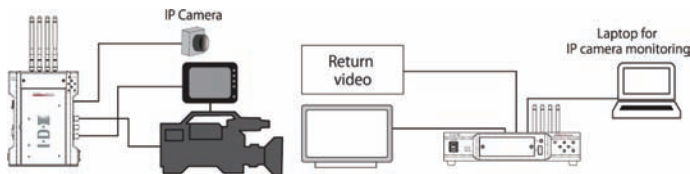
#### Transmitter(TX) System chart



# One Box Does It All

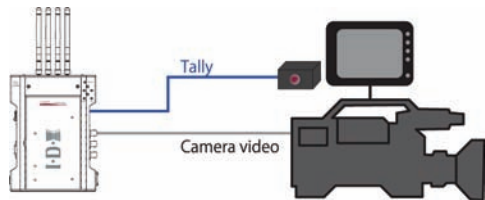
## LAN Network

The transmitter (TX) and receiver (RX) are equipped with a LAN connector allowing use to both the camera operator and director/producer. The LAN bridge is capable of accepting an IP camera, which can be mounted to the primary camera and used to capture a wide angle view. This wide angle view allows the director/producer to see the entire set/scene even when the camera operator has zoomed in.



## Tally

The tally signal is an essential feature for multi-camera productions. The tally signal lets the camera operators know when their camera is on air and helps reduce framing errors. Additionally, the CW-F25's GPI2P supports an open collector output signal and can be used with a simple ON/OFF LED device.



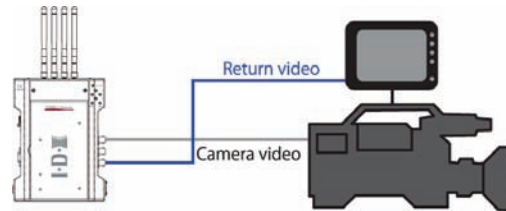
## Intercom

The intercom is an essential feature for bi-directional communication and directing a cameraman's movements. Included with the CW-F25 are two sets of headsets. Since the intercom uses a mini-jack terminal, a smart phone's earphone can be used as well.



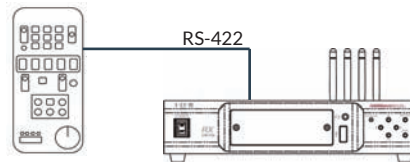
## Return Video

Camera operators frequently check the return video/program signal from the switcher to accurately adjust their composition, angle of view and camera settings. By checking the return video, camera operators can always be ready and confident for their time on air.



## Camera Control

Remotely control various parts of the camera via RS-422



# Applications

## Simplification of FPU Applications

The CW-F25 return video and intercom functions can be used in conjunction with an FPU system's uplink, thereby reducing the number of FPU systems needed.

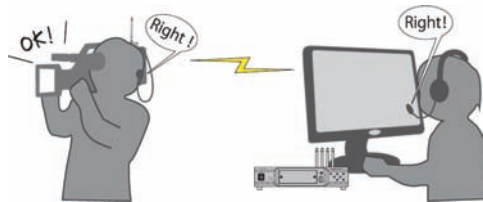
## Outdoor Live Shooting

The CW-F25's uplink, downlink, and intercom features can significantly reduce the time and cost of setting up an outdoor production by eliminating the need to run cables and fiber optics.



## On-site Operational Flexibility

When you want to be the first to report breaking news, instruct your camera operator to capture specific content in the midst of chaos, and at the same time send a return video signal back to the camera operator, the CW-F25 is your solution for a smooth and successful news shoot.



## Stadium Content Enhancement

Stadium events use wired camera systems to capture content. Wired and stationary cameras are limited in what they can capture. However, with the CW-F25, a camera can be released from the wire and roam freely around the stadium – capturing creative, unique, and never before seen shots.



## Breaking News Coverage

Local TV stations and CATV are generally required to provide coverage of disaster events. With the CW-F25's ability to transmit up to 2km, covering disaster scenarios and providing content to stations is well within the realm of possibility.





Giving you the Power to Create

### Worldwide Support



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