WATSON® PRO

AM/VM-99-HCS-R
AM/VM-148-HCS-R

Cine style
Li-ion Battery with LED
and 3-Stud or V-Mount

Thank you for choosing Watson Pro

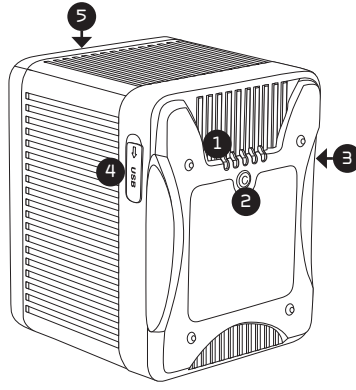
Please read this user manual carefully, and keep it for reference before using the battery.

SAFETY INSTRUCTIONS

- Make sure the battery is fully charged before use.
- When not in use, remove the battery from its device. Some electronic equipment will draw current even when the switch is off.
- Do not short-circuit the terminals. This battery is protected with an internal self-resetting fuse, but short circuits may still cause severe damage to the battery.
- Do not attempt to open the battery case under any circumstances.
- Do not remove the battery from any equipment that is powered on. Always power off your equipment before removing the battery.
- Use the battery under proper environmental conditions: 14°F to 122°F (-10°C to 50°C) with a Relative Humidity (RH) less than 85%.
- The battery may be warm during use or recharging. This is normal.
- The battery should be charged up to 40% for storage longer than one month, and should be charged every 6 months.
- Keep the battery away from fire, heat, and high pressure.
- Do not expose the battery to rain or moisture.
- Do not drop the battery or subject it to strong shocks.
- Keep this unit away from water and any flammable gases or liquids.
- Clean the battery and terminals with only a clean, soft, and dry cloth.
- When operation time has noticeably decreased, the battery may need to be replaced.
- Keep this product away from children.
- Store the battery in a cool, dry place.

OVERVIEW

1. ***Battery-level LED meter***
   Shows remaining capacity of the battery. When capacity reaches less than 9%, the leftmost LED will flash.
2. ***Battery-level check button***
3. ***D-tap output***
   12 V, 10 A max
4. ***USB output***
   Press the battery-level check button to start charging or to power your USB device.
5. ***Mounting interface:*** 3-stud or V-mount



PRODUCT FEATURES

- *High-powered li-ion cells provide constant output up to 180 W and 15 A.*
- *Battery-level LED indicators for remaining battery capacity.*
- *Built-in D-tap connector powers your camera accessories.*
- *5 V/1 A USB 2.0 output for USB-powered devices.*
- *Built-in intelligent control circuit protects against damage from current or voltage overload, overheating, or short circuits.*

SPECIFICATIONS

Mount type	3-Stud	AM-99-HCS-R	AM-148-HCS-R
	V-Mount	VM-99-HCS-R	VM-148-HCS-R
Capacity		98.78 Wh, 6.86 Ah	148.18 Wh, 10.29 Ah
Voltage		14.4 V	14.4 V
Max output power		180 W	180 W
Max output current		15 A	15 A
Average run-time		60 min. @ 100 W	93 min. @ 100 W
Weight		1.8 lb. (0.8 kg)	2.4 lb. (1.09 kg)
Dimensions (H × W × D)	3-Stud	4.5 × 3.6 × 3.0 in. (11.5 × 9.2 × 7.7 cm)	4.5 × 3.6 × 4.2 in. (11.5 × 9.2 × 10.6 cm)
	V-Mount	4.5 × 3.6 × 2.7 in. (11.5 × 9.2 × 6.9 cm)	4.5 × 3.6 × 3.9 in. (11.5 × 9.2 × 9.8 cm)

CHARGING TIME

Battery	Single channel	Dual channel	Four channel
AM-99-HCS-R VM-99-HCS-R	300 min.	240 min.	240 min.
AM-148-HCS-R VM-148-HCS-R	470 min.	360 min. 190 min.	360 min.

BATTERY STORAGE

	Up to one month	Up to three months	Up to one year
Storage environment	-4°F to 122°F (-20°C to 50°C)	-4°F to 104°F (-20°C to 40°C)	23°F to 86°F (-5°C to 30°C)
Relative humidity	45% to 75%	45% to 75%	45% to 75%

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