

# DayCor® LUNINARHD

Luminar<sup>HD</sup> is a handheld corona camera enhanced with features that guarantee the highest sensitivity to UV, highest resolution and high quality recording. Luminar<sup>HD</sup> provides pinpointed and comprehensive data with information about the ambient conditions, fault location and corona strength. Findings are available in real time and displayed on a high definition LCD. Luminar<sup>HD</sup> assists inspectors investigate electrical faults and get a wider understanding of the asset condition. Luminar<sup>HD</sup> supports corona management and includes an interface to coronaWise software with auto-detect and data transfer. By using this camera, engineers benefit from immediate access to active faults. Additionally, the collected media can be used for analysis and trending. Luminar<sup>HD</sup> incorporates Ofil's benchmarked DayCor® proprietary technology ensuring daytime operation with the highest sensitivity to UV radiation of corona. Luminar<sup>HD</sup> is ergonomically designed and built for extended uninterrupted operation.

- » Highest sensitivity
- » Powerful zoom
- » Hi resolution TFT LCD
- » Recording & playback
- » HD 720p videos
- » Built-In GPS
- » Wi-Fi hot spot
- » LED & Backlit keyboard
- » Signals amplification
- » Noise reduction control

#### SENSITIVITY IS THE KEY FACTOR

Handheld high definition corona camera

Corona can only be seen in daytime by a solar blind imager, but to be able to see UV photons, the corona elements, from afar and not miss any occurence of corona, a hyper sensitive camera such as Luminar  $^{\rm HD}$  is required. To ascertain the performance of Luminar  $^{\rm HD}$  the camera has been tested and certified having a sensitivity of detecting as low as 1 pC from a distance of 15 meters. Signal amplification and noise reduction contribute to better resolution and performance.

### SEE TO FORESEE - PREDICTIVE MAINTENANCE

Luminar<sup>HD</sup> is a HD video and stills recorder of corona events superimposed on visible imaging of their sources. The camera scores corona severity and indicates it on the output together with narration, ambient conditions and GPS. Luminar<sup>HD</sup> output is valuable to predictive maintenance, which relies on past performance evidence and documentation.

#### DAYCOR® TECHNOLOGY INSIDE

Luminar<sup>HD</sup> is a high fidelity bi-spectral solar blind camera implementing Ofil's proprietary DayCor® technology [Registered Patent EP1112459B1]. Luminar<sup>HD</sup> offers over 3 hours ongoing continuous battery run time operation without overheating.

#### PERFECTION IN EVERY DETAIL

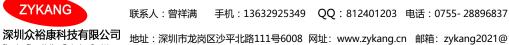
Spanning from the spacious onboard function buttons with on/ off backlight, through a pictorial menu, large adjustable TFT LCD, powerful LED flash light, preset profiles and more, up to the most elaborated detector, Luminar<sup>HD</sup> is dedicated to perfection. By achieving extremely ergonomic design and fortified detection power, Ofil enables you to enjoy a notably reliable product with excellent results.

#### **ALL IN ONE**

Luminar<sup>HD</sup> is an outstanding testing equipment to enjoy under multiple conditions: whether indoors or outdoors, nearby or afar inspections, as a handheld unit or mounted, controlled locally or remotely. All features in one equipment, all requirements equally met. The powerful onboard LED takes care of dimmed working compartments, while full solar blind filter ensures full operation under sunny conditions. Powerful zoom, 1000 nits TFT LCD and HD video support resolving details of remote objects. Wi-Fi and Ethernet support controlling the camera remotely getting the output imaging onto an external monitor. Continuous operation without overheating and a rechargeable battery with extended lifetime helps accomplish efficient outdoor inspection.

## **TECHNICAL SPECIFICATIONS**

Infinition Discharge Detection   1pt (@ 15 m Fested & certified by Innogy SF-Eurobest : NEMA 107-19	V - OPTICAL PROPERTIES	
Minimum UV Sensitivity  2.05x10-" wastVem" H 10" - 1.0" V 5.6"-0" Spythonized with visible channel, optic & digital, continuous Full manual and auto focus for both channels PV Zoom  2x Optical 6.25x Digital, Staved to the visible channel PV Zoom  2x Optical 6.25x Digital, Staved to the visible channel PV Zoom  2x Optical 6.25x Digital, Staved to the visible channel PV Zoom  2x Optical 6.25x Digital, Staved to the visible channel PV Zoop Stave Staved PV Zoop Staved PV	linimum Discharge Detectionsc	1pC @ 15 m Tested & certified by Innogy SE-Eurotest Germany: IEC 60270:2000
Fields of View Fit 10" - 1.6" V: 5.6"-0.9" Synchronized with visible channel, optic & digital, continuous Focus Full manual and auto focus for both channels Spectral Range 24.0-280mm DV Exames Integration DV Exames Integration OVEOFF   ON: [Snapshot only   Amplification   False elimination filter] DV Exames Integration OVEOFF   ON: [Snapshot only   Amplification   False elimination filter] DV Exames Integration OVEOFF   ON: [Snapshot only   Amplification   False elimination filter] DV Exames Integration OVEOFF   ON: [Snapshot only   Amplification   False elimination filter] DV Exames Integration OVEOFF   ON: [Snapshot only   Amplification   False elimination filter] DV Exames Integration OVEOFF   ON: [Snapshot only   Amplification   False elimination filter] DV Exames Integration DV Exames   One   Amplification   False elimination filter] DV Exames   One   O	linimum RIV Detection	3.6dBμV (RIV) @1MHz@10m Tested & certified by Innogy SE-Eurotest : NEMA107-1987
Full manual and auto focus for both channels  2/2 Optical 6,25x Digital, Slaved to the visible channel  3/2 Coom  2/4 Optical 6,25x Digital, Slaved to the visible channel  3/2 Frames Integration  3/2 Frames Integration  3/2 Frames Integration  3/2 Frames Integration  3/2 Display Colors  Polychromatic: Red, Green. White, Black, Yellow  3/2 Slaved and Common State  4/2 Optical 1,220 Display Colors  Deviation < 1 Imiliaradian  3/2 Slaved and Common State  4/2 C	linimum UV Sensitivity	2.05x10 <sup>-18</sup> watt/cm <sup>2</sup>
2x Optical 6.25x Digital, Slaved to the visible channel spectral Range 240-280nm NFrames Integration NV Prames Integration NV Prames Integration NV Display Colors Polychromatic Red, Green, White, Black, Yellow NV Bisplay Colors Polychromatic Red, Green, White, Black, Yellow NV Bisplay Colors NV Sibile Leght Sensitivity One Gut No	ields of View	H: 10° - 1.6° V: 5.6°-0.9° Synchronized with visible channel, optic & digital, continuous
Spectral Range 240-280nm ON/OFF   ONE   Snapshot only   Amplification   False elimination filter)   ONF cremes Integration ON/OFF   ONE   Snapshot only   Amplification   False elimination filter)   ONF ONE   ONE   ONF ONE   ONE   ONF ONE	ocus	Full manual and auto focus for both channels
ON/OFF   ON: [Snapshot only   Amplification   False elimination filter]  JV Displey (clors Polychromatic: Red, Green, White, Black, Yellow  JVISIBLE - OPTICAL PROPERTIES  JVINSIBIBLE - OPTICAL PROPERTIES  JVINSIBLE - OPTICAL PROPE	V Zoom	2x Optical 6.25x Digital, Slaved to the visible channel
Description	pectral Range	240-280nm
JAVISIBLE - OPTICAL PROPERTIES  JAVISIBLE OPTICAL PROPERTIES  JAVISIBLE Upta Space (Concey)  Vilinium Visible Light Sensitivity  Visible Soorm  12x Optical, 12x Digital, continuous  Jiva Visible Channels Display Modes  Combine LW & Visible, UV only, visible only  JISPLAY  Vilinium Visible Light Sensitivity  Visible Commission  Vilinium Visible Light Sensitivity  Visible Light Sensitivity  Visible Light Sensitivity  Vilinium Visible Light Sensitivity  Vilinium Visible Light Sensitivity  Visible Commission  Vilinium Visible Light Sensitivity  Visible Commission  Visible Commiss	V Frames Integration	ON/OFF   ON: [Snapshot only   Amplification   False elimination filter]
### Deviation < 1 milifradian ### Wishel Light Sensitivity ### O.06 Lux ### Wishel Light Sensitivity ### D.720p. 1280X720px ### D.720p. 1280X720px ### D.720p. 1280X720px #### D.720px #### D.720px #### D.720px ### D.720px #	V Display Colors	Polychromatic: Red, Green. White, Black, Yellow
Minimum Wisible Light Sensitivity  Mideo Standard  HD, 720p,1280X720px Fields of View  H: 10° - 1.6° V: 5.6° -0.9° Synchronized with UV channel, optic & digital, continuous Fields of View  M: 40° - 1.6° V: 5.6° -0.9° Synchronized with UV channel, optic & digital, continuous  M: 8 Visible Channels Display Modes  Combine UV & Visible, UV only, visible only  DISPLAY  Mype  Color, sun readable, TFT LCD  Adjustable backlight  Resolution  W/GA, 800 x 480 pixels RGB  Size  5°  Cibrage  Adjustable angles  Muga, 800 x 480 pixels RGB  Size  6°  Milling  Adjustable angles  Muga, 800 x 480 pixels RGB  Size  Filting  Adjustable angles  Muga, 800 x 480 pixels RGB  Size  Filting  Adjustable angles  Muga, 800 x 480 pixels RGB  Size  Filting  Adjustable angles  Muga, 800 x 480 pixels RGB  Size  Filting  Adjustable angles  Muga, 800 x 480 pixels RGB  Size  Filting  Adjustable angles  Muga, 800 x 480 pixels RGB  Size  Filting  Adjustable angles  Muga, 800 x 480 pixels RGB  Size  Filting  Adjustable angles  Muga, 168 Ethernet, Wi-Fi, Mini USB, Ethernet  Built-in, internal antenna  Etex Editor  Built-in, i	ISIBLE - OPTICAL PROPERTIES	
Fields of View Ht. 10° – 1.6° V: 5.6° – 0.9° Synchronized with UV channel, optic & digital, continuous of cous Range 0.6m   1.96ft Automatic & manual / 12× Optical, 12× Digital, continuous 2 / 12× Optical, 12× Digital, continuous 3 / 12× Optical, 12× Digital, continuous 4 / 12× Optical, 12× Digital, continuous 4 / 12× Optical, 12× Digital, continuous 4 / 12× Optical, 12× Digital, continuous 5 / 12× Digital, continuous 6 / 12× Digi	V/Visible Overlay Accuracy	Deviation < 1 miliradian
Fields of View H: 10° - 1.6° V: 5.6° -0.9° Synchronized with UV channel, optic & digital, continuous Cours Range 0.6m   1.96ft Automatic & manual 1.75 bits 200m 12× Optical. 12× Digital, continuous 2.75 bits 200m 12× Optical. 12× Digital, continuous 2.75 bits 200m 12× Optical. 12× Digital, continuous 2.75 bits 200m 2.75	linimum Visible Light Sensitivity	0.06 Lux
Focus Range 0.6m   1.96ft Automatic & manual    1/s Stylis Coom 12x Optical, 12x Digital, continuous    1/s Stylis Channels Display Modes Combine UV & Visible, UV only, visible only    1/s Stylis Channels Display Modes Color, sun readable, TFT LCD    1/s Stylis Channels Display Modes   1000 cd/m², adjustable backlight    1/s Stylis Channels Display Modes   1000 cd/m², adjustable backlight    1/s Stylis Channels RGB    1/s	ideo Standard	HD, 720p ,1280X720px
### ### ### ### ### ### ### ### ### ##	ields of View	H: 10° - 1.6° V: 5.6°-0.9° Synchronized with UV channel, optic & digital, continuous
Combine UV & Visible, UV only, visible only  DISPLAY  Type Color, sun readable, TFT LCD  Srightness 1000 cd/m², adjustable backlight  WGA, 800 x 480 pixels RGB  Size 5° Filting Adjustable angles  // O & CONTROLS  Input Audio, temperature & humidity sensor, Mini USB, Ethernet  Dutput HDMI, Aux, 1GB Ethernet, Wi-Fi, Mini USB  Functions Activation Keypad buttons with adjustable backlight, featured menu, remote control  Built-in, internal antenna  Fest Editor Built-in, internal antenna  Fest Editor Built-in, LED, 2 steps  ENVIRONMENTAL  ENVIRONMENTAL  ENVIRONMENTAL  Florage and Operation Temp Pating Pating Pating Pating Pating Pating HD54, up to 90%, non condensation  MEDIA CAPTURE & DATA STORAGE  Fide S Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures  MOV res. 720p  Builts Format MOV res. 720p  Mulcio MAA\1099  Digital Storage Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight Dimensions L x W x H L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption 15 Watts  Power Source Rechargeable (int & ext) battery run time > 3 hours, Universal AC/DC 9.5V adapter	ocus Range	0.6m   1.96ft Automatic & manual
Figure Color, sun readable, TFT LCD  Grightness 1000 cd/m², adjustable backlight  Resolution WVGA, 800 x 480 pixels RGB  Size 5"  Tillting Adjustable angles  // O& CONTROLS  Input Audio, temperature & humidity sensor, Mini USB, Ethernet  Dutput HDMI, Aux, 1GB Ethernet, WI-Fi, Mini USB  Functions Activation Keypad buttons with adjustable backlight, featured menu, remote control  SPS Built-in, internal antenna  Feet Editor Built-in  Data Export Ethernet, Video-out, micro SD card  Flashlight Built-in, LED, 2 steps  ENVIRONMENTAL  Storage and Operation Temp -20°C up to +55°C   -4°F up to +131°F, fanless  P Rating IP 5/4, up to 90%, non condensation  MEDIA CAPTURE & DATA STORAGE  Mideo & Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures  Mideo & Stills Format IPG  Audio M4A\1099  Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight 2.2 Kg   4.85 Ib  Dimensions L x W x H L29 x W13 x H11.7 cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption 15 Watts  Power Source Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	isible Zoom	12x Optical, 12x Digital, continuous
Color, sun readable, TFT LCD  Brightness 1000 cd/m², adjustable backlight  Resolution WVGA, 800 x 480 pixels RGB  Filiting Adjustable angles  Adjustable sensor, Mini USB, Ethernet  Adjustable backlight, featured menu, remote control  Adjustable backlight, featured menu, remote control  Bright Built-in, internal antenna  Exet Editor Built-in, internal antenna  Exet Editor Built-in, LED, 2 steps  Built-in, LED, 2 steps  Ethernet, Video-out, micro SD card  Blashlight Built-in, LED, 2 steps  ENVIRONMENTAL  Storage and Operation Temp  Pating PS4, up to 90%, non condensation  MEDIA CAPTURE & DATA STORAGE  Addio Adjustable Data Storage  MEDIA CAPTURE & DATA STORAGE  Addio M4A\1099  Memory flash card Micro SD  Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight 2.2 Kg   4.85 lb  Dimensions Lx W x H  Advison Backers and Storage Rechargeable (int & ext) battery run time > 3 hours, Universal AC/DC 9.5V adapter	V & Visible Channels Display Modes	Combine UV & Visible, UV only, visible only
Arightness 1000 cd/m², adjustable backlight Resolution WVGA, 800 x 480 pixels RGB Resolution WVGA, 800 x 480 pixels RGB Resolution WVGA, 800 x 480 pixels RGB Resolution Adjustable angles  // O& CONTROLS  Input Audio, temperature & humidity sensor, Mini USB, Ethernet  Dutput HDMI, Aux, 1GB Ethernet, Wii-Fi, Mini USB Functions Activation Keypad buttons with adjustable backlight, featured menu, remote control  SpS Built-in, internal antenna  Rest Editor Built-in Data Export Ethernet, Video-out, micro SD card  Relashlight Built-in, LED, 2 steps  ENVIRONMENTAL  Storage and Operation Temp -20°C up to +55°C   -4°F up to +131°F, fanless  P Rating IP 54, up to 90%, non condensation  MEDIA CAPTURE & DATA STORAGE  Video Format MOV res. 720p  Stills Format MOV res. 720p  Digital Storage Menory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight 2.2 Kg   4.85 Ib Dimensions L x W x H  L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption 15 Watts  Power Source Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	ISPLAY	
Resolution WVGA, 800 x 480 pixels RGB  Size 5"  Tilting Adjustable angles  /O & CONTROLS  Input Audio, temperature & humidity sensor, Mini USB, Ethernet Dutput HDMI, Aux, 1GB Ethernet, Wi-Fi, Mini USB Functions Activation Keyad buttons with adjustable backlight, featured menu, remote control SPS  Built-in, internal antenna  Ext Editor Built-in Data Export Ethernet, Video-out, micro SD card Palshlight Built-in, LED, 2 steps  ENVIRONMENTAL  Storage and Operation Temp -20°C up to +55°C   -4°F up to +131°F, fanless P Rating IP 54, up to 90%, non condensation  MEDIA CAPTURE & DATA STORAGE  Video & Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures  Video Format MOV res. 720p  Digital Storage Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight 2.2 Kg   4.85 lb  Dimensions L x W x H  L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption 15 Watts  Power Source Rechargeable (int & ext) battery run time > 3 hours, Universal AC/DC 9.5V adapter	ype	Color, sun readable, TFT LCD
Size 5"   Cilting Adjustable angles   /O & CONTROLS HDML   Dutput Audio, temperature & humidity sensor, Mini USB, Ethernet   Coutput HDML, Aux, 1GB Ethernet, Wi-Fi, Mini USB   Functions Activation Keypad buttons with adjustable backlight, featured menu, remote control   SDS Built-in, internal antenna   Feet Editor Built-in   Data Export Ethernet, Video-out, micro SD card   Flashlight Built-in, LED, 2 steps   ENVIRONMENTAL -20°C up to +55°C   -4°F up to +131°F, fanless   EN P Rating 1P 54, up to 90%, non condensation   MEDIA CAPTURE & DATA STORAGE Internal, gallery display & playback video, audio & still pictures   Video & Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures   Video Format MOV res. 720p   Audio M4A\1099   Digital Storage Memory flash card Micro SD   PHYSICAL CHARACTERISTICS & POWER SOURE Wemory flash card Micro SD   PHYSICAL CHARACTERISTICS & POWER SOURCE Very W13 x H11.7cm   11.4" x 5.1" x 4.6"   Nominal Power Consumption 15 Watts   Power Source Rechargeable (int & ext) battery run time > 3 hours, Universal AC/DC 9.5V adapter	rightness	1000 cd/m², adjustable backlight
Adjustable angles  ***POR CONTROLS***  ***Puput Audio, temperature & humidity sensor, Mini USB, Ethernet ***Dutput HDMI, Aux, 1GB Ethernet, Wi-Fi, Mini USB ***Punctions Activation Keypad buttons with adjustable backlight, featured menu, remote control ***SPS Built-in, internal antenna  ***Person Built-in ***Data Export Ethernet, Video-out, micro SD card ***Plashlight Built-in, LED, 2 steps  ***ENVIRONMENTAL**  ***Storage and Operation Temp -20°C up to +55°C   -4°F up to +131°F, fanless ***P Rating IP 54, up to 90%, non condensation  ***MEDIA CAPTURE & DATA STORAGE**  ***Jideo & Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures  **Jideo Format MOV res. 720p **Judio M4A1099**  **Judio M4A1099**  **Judio Storage Memory flash card Micro SD ***PHYSICAL CHARACTERISTICS & POWER SOUNCE**  **Judio Lega M. Memory flash card Micro SD ***PHYSICAL CHARACTERISTICS & POWER SOUNCE**  **Judio Memory flash card Micro SD ***PHYSICAL CHARACTERISTICS & POWER SOUNCE**  **Judio Memory flash card Micro SD ***PHYSICAL CHARACTERISTICS & POWER SOUNCE**  **Judio Memory flash card Micro SD ***PHYSICAL CHARACTERISTICS & POWER SOUNCE**  **Judio Memory flash card Micro SD ***Judio Memory	esolution	WVGA, 800 x 480 pixels RGB
Audio, temperature & humidity sensor, Mini USB, Ethernet Dutput HDMI, Aux, 1GB Ethernet, Wi-Fi, Mini USB Functions Activation Keypad buttons with adjustable backlight, featured menu, remote control SPS Built-in, internal antenna Exet Editor Built-in Data Export Ethernet, Video-out, micro SD card Elashlight Built-in, LED, 2 steps ENVIRONMENTAL Storage and Operation Temp -20°C up to +55°C   -4°F up to +131°F, fanless P Rating P54, up to 90%, non condensation EDIA CAPTURE & DATA STORAGE Video & Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures Video Format MOV res. 720p Stills Format JPG Audio M4A\1099 Audio M4A\1099 Digital Storage Memory flash card Micro SD PHYSICAL CHARACTERISTICS & POWER SOURCE Weight 2.2 Kg   4.85 lb Dimensions L x W x H L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6" Nominal Power Consumption 15 Watts Power Source Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	ize	5"
Audio, temperature & humidity sensor, Mini USB, Ethernet butput HDMI, Aux, 1GB Ethernet, Wi-Fi, Mini USB unctions Activation Keypad buttons with adjustable backlight, featured menu, remote control sPS Built-in, internal antenna ext Editor Built-in bata Export Ethernet, Video-out, micro SD card lashlight Built-in, LED, 2 steps  ENVIRONMENTAL  Ethorage and Operation Temp -20°C up to +55°C   -4°F up to +131°F, fanless P Rating IP 54, up to 90%, non condensation  MEDIA CAPTURE & DATA STORAGE  Fideo & Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures fideo Format MOV res. 720p  HISTORIAN  MOV res. 720p  MEDIA CHARACTERISTICS & POWER SOUNCE  Weight 2.2 Kg   4.85 lb  L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Jominal Power Consumption 15 Watts  Power Source Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	ilting	Adjustable angles
HDMI, Aux, 1GB Ethernet, Wi-Fi, Mini USB Functions Activation  Keypad buttons with adjustable backlight, featured menu, remote control  Reypad buttons with adjustable backlight, featured menu, remote control  Built-in, internal antenna  Built-in, internal antenna  Built-in  Built-in, LED, 2 steps  Built-in, Internal, pallery but o +131°F, fanless  Built-in, LED, 2 steps  Built-in, LED, 2 steps  Built-in, LED, 2 steps  Built-in, Internal antenna	O & CONTROLS	
Reunctions Activation  Rey Built-in, internal antenna  Built-in  Data Export  Ethernet, Video-out, micro SD card  Ethernet, Video-out, mic	put	Audio, temperature & humidity sensor, Mini USB, Ethernet
Built-in, internal antenna  Built-in, internal antenna  Built-in  Data Export  Ethernet, Video-out, micro SD card  Elashlight  Built-in, LED, 2 steps  ENVIRONMENTAL  Storage and Operation Temp  -20°C up to +55°C   -4°F up to +131°F, fanless  P Rating  IP 54, up to 90%, non condensation  MEDIA CAPTURE & DATA STORAGE  Video & Stills Capture & Playback  Internal, gallery display & playback video, audio & still pictures  Video Format  MOV res. 720p  Stills Format  JPG  Audio  M4A\1099  Digital Storage  Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight  2.2 Kg   4.85 lb  Dimensions L x W x H  L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption  15 Watts  Pewer Source  Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	utput	HDMI, Aux, 1GB Ethernet, Wi-Fi, Mini USB
Built-in Data Export Ethernet, Video-out, micro SD card Ethernet	unctions Activation	Keypad buttons with adjustable backlight, featured menu, remote control
Ethernet, Video-out, micro SD card  Flashlight Built-in, LED, 2 steps  ENVIRONMENTAL  Storage and Operation Temp -20°C up to +55°C   -4°F up to +131°F, fanless P Rating IP 54, up to 90%, non condensation  MEDIA CAPTURE & DATA STORAGE  Video & Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures  Video Format MOV res. 720p  Stills Format JPG  Audio M4A\1099  Digital Storage Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOUNCE  Weight 2.2 Kg   4.85 lb  Dimensions L x W x H L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption 15 Watts  Pewer Source Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	PS	Built-in, internal antenna
Elashlight Built-in, LED, 2 steps  ENVIRONMENTAL  Storage and Operation Temp -20°C up to +55°C   -4°F up to +131°F, fanless P Rating IP 54, up to 90%, non condensation  MEDIA CAPTURE & DATA STORAGE  Video & Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures  Video Format MOV res. 720p  Stills Format JPG  Audio M4A\1099  Digital Storage Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOUNCE  Weight 2.2 Kg   4.85 lb  Dimensions L x W x H L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption 15 Watts  Power Source Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	ext Editor	Built-in
ENVIRONMENTAL  Storage and Operation Temp	ata Export	Ethernet, Video-out, micro SD card
ENVIRONMENTAL  Storage and Operation Temp	lashlight	Built-in, LED, 2 steps
P Rating IP 54, up to 90%, non condensation  MEDIA CAPTURE & DATA STORAGE  Video & Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures  Video Format MOV res. 720p  Stills Format JPG  Audio M4A\1099  Digital Storage Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight 2.2 Kg   4.85 lb  Dimensions L x W x H L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption 15 Watts  Power Source Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	NVIRONMENTAL	
P Rating IP 54, up to 90%, non condensation  MEDIA CAPTURE & DATA STORAGE  Video & Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures  Video Format MOV res. 720p  Stills Format JPG  Audio M4A\1099  Digital Storage Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight 2.2 Kg   4.85 lb  Dimensions L x W x H L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption 15 Watts  Power Source Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	torage and Operation Temp	-20°C up to +55°C   -4°F up to +131°F, fanless
Aideo & Stills Capture & Playback  MOV res. 720p  Stills Format  MOV res. 720p  JPG  Audio  M4A\1099  Digital Storage  Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight  2.2 Kg   4.85 lb  Dimensions L x W x H  L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption  To Watts  Rechargeable (int & ext) battery run time > 3 hours, Universal AC/DC 9.5V adapter		
Aideo & Stills Capture & Playback Internal, gallery display & playback video, audio & still pictures MOV res. 720p Stills Format Audio M4A\1099 Digital Storage Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE Weight 2.2 Kg   4.85 lb Dimensions L x W x H L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6" Nominal Power Consumption 15 Watts Power Source Rechargeable (int & ext) battery run time > 3 hours, Universal AC/DC 9.5V adapter	IEDIA CAPTURE & DATA STORAGE	
MOV res. 720p  Stills Format  Audio  M4A\1099  Digital Storage  Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight  2.2 Kg   4.85 lb  Dimensions L x W x H  L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption  15 Watts  Power Source  Rechargeable (int & ext) battery run time > 3 hours, Universal AC/DC 9.5V adapter		Internal, gallery display & playback video, audio & still pictures
Audio M4A\1099 Digital Storage Memory flash card Micro SD  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight 2.2 Kg   4.85 lb Dimensions L x W x H L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption 15 Watts  Power Source Rechargeable (int & ext) battery run time > 3 hours, Universal AC/DC 9.5V adapter	ideo Format	MOV res. 720p
Digital Storage  PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight  2.2 Kg   4.85 lb  Dimensions L x W x H  L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption  15 Watts  Power Source  Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	tills Format	JPG
PHYSICAL CHARACTERISTICS & POWER SOURCE  Veight 2.2 Kg   4.85 lb  Dimensions L x W x H L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Jominal Power Consumption 15 Watts  Power Source Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	udio	M4A\1099
PHYSICAL CHARACTERISTICS & POWER SOURCE  Weight 2.2 Kg   4.85 lb  Dimensions L x W x H L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"  Nominal Power Consumption 15 Watts  Power Source Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	igital Storage	Memory flash card Micro SD
Weight     2.2 Kg   4.85 lb       Dimensions L x W x H     L29 x W13 x H11.7cm   11.4" x 5.1" x 4.6"       Nominal Power Consumption     15 Watts       Power Source     Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter		
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Power Source Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter	ominal Power Consumption	15 Watts
		Rechargeable (int & ext) battery run time >3 hours, Universal AC/DC 9.5V adapter
	lounting Point	
.ED Indicators On\Off, sleep mode, recording mode, power source		



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