



## Technical Specifications of a Digital Audio Recorder

Recording Media	SD card (64MB to 2GB), SDHC card (4GB to 32GB), SDXC card (up to 128GB)
File System	FAT16/32, exFAT
Recording File Format	<ul style="list-style-type: none"> <li>WAV / BWF Sampling Frequency - 44.1k / 48k / 96k Hz Bit-depth - 16 / 24-bit</li> <li>MP3 Sampling Frequency 44.1k / 48k Hz Recording Bit-rate 32k / 64k / 96k / 128k / 192k / 256k / 320k bps Playback Bit-rate 32k to 320k bps, VBR, ID3TAG Ver. 2.4</li> </ul>
Number of Channels	4-channel (2 Stereo)
Playback speed control	0.5 to 2.0 times (in 0.1 increments) * 44.1k/48kHz only
Built-in Microphone	Unidirectional, Stereo (switchable between A-B and X-Y positions)
EXT MIC/LINE IN	<ul style="list-style-type: none"> <li>Connector XLR/TRS Combo jack (1: GND, 2: HOT, 3: COLD)</li> <li>Nominal Input Level -19dBV (MIC) / +4dBu (LINE)</li> <li>Maximum Input Level -3dBV (MIC) / +20dBu (LINE)</li> <li>Input Impedance 2.2kΩ (MIC) / 10kΩ (LINE)</li> </ul>
PHONES/LINE OUT	<ul style="list-style-type: none"> <li>Connector 1/8" (3.5mm) Stereo Mini jack (Unbalanced) <b>for LINE connection</b></li> <li>Nominal Output Level -14dBV (10kΩ load)</li> <li>Maximum Output Level +2dBV (10kΩ load)</li> <li>Output Impedance 12Ω</li> <li><b>for Headphones connection</b></li> <li>Maximum Output Power 20mW + 20mW (32Ω load)</li> </ul>
USB	<ul style="list-style-type: none"> <li>Connector USB Micro B-type</li> <li>Format USB2.0 HIGH SPEED</li> </ul>



Built-in Speaker	0.3W, Mono
Low-cut Filter	40 / 80 / 120Hz
Chromatic Tuner	C1 to B6, A4 = 435Hz to 445Hz (in 1Hz increments)
Effector	6 presets (Hall 1, Hall 2, Room, Studio, Plate 1, Plate 2)
Tripod attachment screw-hole	1/4" Tripod attachment screw-hole
Power	3 AA Batteries, USB bus power, AC 100 to 240V (optional AC Adapter)
Power Consumption	2.5 W (Max)
Battery Operation Time (Recording)	<ul style="list-style-type: none"> <li>Alkaline (EVOLTA) approx. 18 hours (2ch WAV, 44.1kHz, 16-bit, using Built-in Microphone, JEITA)</li> <li>Ni-MH (eneloop) approx. 16 hours (2ch WAV, 44.1kHz, 16-bit, using Built-in Microphone, JEITA)</li> </ul>
Dimensions (W×H×D)	2.75" × 6.1" × 1.37" / 70 × 155 × 35 mm
Weight	8.3 oz. / 213 g
Audio Performance	<p><u>Frequency Response</u></p> <ul style="list-style-type: none"> <li>Fs 44.1kHz 20Hz to 20kHz, +0/-1 dB (EXT IN to LINE OUT, JEITA)</li> <li>Fs 48kHz 20Hz to 22kHz, +0/-1 dB (EXT IN to LINE OUT, JEITA)</li> <li>Fs 96kHz 20Hz to 40kHz, +0/-1 dB (EXT IN to LINE OUT, JEITA)</li> </ul>
Total Harmonic Distortion	0.01% or less (Fs 44.1k/48k/96kHz, EXT IN to LINE OUT, JEITA)
Signal-to-Noise Ratio	94 dB or higher (Fs 44.1k/48k/96kHz, EXT IN to LINE OUT, JEITA)
Supported OS	<ul style="list-style-type: none"> <li>Windows 7 or later</li> <li>macOS Sierra(10.12) or later</li> <li>iOS 11 or later, iPadOS 14</li> </ul>



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Inputs	<ul style="list-style-type: none"> <li>• XYH-6 X/Y MIC Mic type: Unidirectional Sensitivity: -41 dB, 1 kHz at 1 Pa Input gain: <math>-\infty</math> to 46.5 dB Max sound pressure input: 136 dB SPL</li> <li>• XYH-6 MIC/LINE IN Connector: 1/8" stereo mini jack Input level: <math>-\infty</math> to 46.5 dB Input impedance: 2 k <math>\Omega</math> Plug-in power: 2.5V supported</li> <li>• MSH-6 MS MIC Mic types: Unidirectional and bi-directional Sensitivity: -37 dB, 1 kHz at 1 Pa (unidirectional) -39 dB, 1 kHz at 1 Pa (bi-directional) Input gain: <math>-\infty</math> to 42.5 dB Max sound pressure input: 120 dB SPL (unidirectional) 122 dB SPL (bi-directional)</li> <li>• INPUTS 1 TO 4 Connectors: XLR / TRS combo jacks (XLR: Pin 2 hot / TRS: Tip hot) Input gain: (PAD OFF) <math>-\infty</math> to 55.5 dB Input gain: (PAD ON) <math>-\infty</math> to 35.5 dB Input impedance: 1.8k<math>\Omega</math> or more Max input level: +22 dBu (PAD ON) Phantom power: +12V /+24V /+48V (Phantom power can be turned on/off independently for Inputs 1 - 4) Equivalent Input Noise (EIN): -120 dBu or less</li> </ul>
OUTPUTS	<ul style="list-style-type: none"> <li>• LINE OUT Jack type: 1/8" stereo mini jack Rated Output Level: -10 dBu when output load impedance is 10k <math>\Omega</math> or more</li> <li>• PHONE OUT Jack type: 1/8" stereo mini jack Output Level: 20 mW +20 mW into 32 <math>\Omega</math> load</li> <li>• BUILT-IN SPEAKER 400mw 8 <math>\Omega</math> mono speaker</li> </ul>



<p>RECORDING FORMATS</p>	<ul style="list-style-type: none"> <li>• WAV Sampling frequency: 44.1/48/96 kHz Bit rate: 16/24 (Mono/Stereo, BWF-compliant) Maximum simultaneous recording tracks: 8 (L/R + INPUT 1 to 4 + L/R backup) (Backup recording: -12dB lower than set L/R input gain)</li> <li>• MP3 Sampling frequency: 44.1kHz Bit Rate: 48/56/64/80/96/112/128/160/192/224/256/320kbps Maximum simultaneous recording tracks: 2</li> </ul>
<p>DISPLAY</p>	<p>LCD SCREEN: 2.0-inch full color LCD (320 x 240 pixels)</p>
<p>USB</p>	<ul style="list-style-type: none"> <li>• MASS STORAGE CLASS OPERATION Class: USB2.0 High Speed</li> <li>• AUDIO INTERFACE OPERATION: MULTI-TRACK MODE Class: USB2.0 High Speed Inputs / Outputs: 6 / 2 Sampling frequency: 44.1/48kHz/96kHz Bit rate: 16/24 bit USB bus powered operation possible</li> </ul>
<p>POWER REQUIREMENTS</p>	<ul style="list-style-type: none"> <li>• AA size (LR6) battery x 4</li> <li>• Alkaline or NiMH type</li> <li>• AC adapter: AD-17 (DC5V/1A/USB-type) (optional)</li> <li>• USB bus power</li> </ul>
<p>BATTERY LIFE</p>	<ul style="list-style-type: none"> <li>• Battery life (with alkaline battery, continuous recording) Over 20 hours</li> </ul>
<p>DIMENSIONS AND WEIGHT</p>	<ul style="list-style-type: none"> <li>• H6: 77.8mm (W) x 152.8mm (D) x 47.8mm (H), 280g</li> <li>• XYH-6: 78.9mm (W) x 60.2mm (D) x 45.2mm (H), 130g</li> <li>• MSH-6: 58.0mm (W) x 67.6mm (D) x 42.1mm (H), 85g</li> </ul>



## Technical Specifications of a Video Light Kit

Adjustable Light Stand	<ul style="list-style-type: none"><li>• 79" Adjustable Light Stand</li><li>• Adjustable from 27"/70cm-79"/200cm</li><li>• Bearing a maximum weight: 6 kg</li></ul>
Led Video Panel Light	<ul style="list-style-type: none"><li>• Color Temperature: 3200/5500K</li><li>• Work Voltage: 7.4V</li><li>• Static Power Consumption: <math>\leq 100\mu\text{A}</math></li><li>• Power: 11W</li><li>• Lumens: 950LM</li><li>• Beam Angle: 60°</li><li>• LED Qty: 160pcs</li><li>• Dimmable LED light with 8 levels brightness</li><li>• Equipped with a hot shoe mount and 1/4-inch thread</li></ul>
Filters	<ul style="list-style-type: none"><li>• Transparent Filter</li><li>• Orange Filter</li></ul>
Rechargeable Battery	<ul style="list-style-type: none"><li>• Battery fully charges in less than 6 hours</li><li>• Last up to 1.76 hours at maximum brightness</li><li>• Suitable for indoor or outdoor use</li><li>• Battery charger</li></ul>
Mount	Hot Shoe Mount Adapter Head which is adjustable to 180 degree and 360 degree



## Technical Specifications of a Flash Light Kit

Guide Number	197' / 60.05 m at ISO 100 (200 mm Position)
Coverage	<ul style="list-style-type: none"><li>• Full-Frame</li><li>• 20 to 200 mm</li><li>• 14 mm (with Wide-Angle Adapter)</li></ul>
Angle of Coverage	<ul style="list-style-type: none"><li>• 12 to 94°</li><li>• 114° (with Wide-Angle Adapter)</li></ul>
Auto Zoom Head	Yes
Bounce Head	-7 to +90°
Swivel Head	360°
Flash Duration	1/430 to 1/550 Second at Full Power
Recycle Time	Approx. 0.1 to 5.5 Seconds
Secondary Illumination	None
Exposure Control	Canon E-TTL / E-TTL II, Manual
Flash Modes	Hi-Speed Sync, Second-Curtain Sync
Power Range	1/1 to 1/128
Flash Compensation	-3 to +3 EV (1/3, 1/2 EV Steps)
Wireless Operation	<ul style="list-style-type: none"><li>• Radio (TTL/Manual) Up to 98.43' / 30 m</li><li>• Optical Pulse (TTL/Manual) Up to 49.21' / 15 m</li></ul>
Wireless Channels	4
Internal Power	4 x AA (Alkaline, Lithium, NiMH)



External Power Pack Compatible	<ul style="list-style-type: none"><li>• Yes</li><li>• A 4-Pack of Rechargeable Double AA Batteries</li></ul>
Mount	Shoe
Off-Camera Terminal	PC, Proprietary
Dimensions (W x H x D)	3.1 x 5.6 x 4.9" / 80 x 143 x 125 mm
Weight	15 oz / 425.25 g (without Batteries)
Accessories	<ul style="list-style-type: none"><li>• Monopod</li><li>• Wireless Shutter Release Remote</li><li>• Battery case</li><li>• Case for Flash</li><li>• Cleaning Pen &amp; Blower</li><li>• SCF-E3 Color Filter</li><li>• SBA-E3 Bounce Adapter</li></ul>



## Technical Specifications of a Tripod

Weight	3lbs
Extend	Extends from 25 inches to 60 inches when center post is fully extended
Features	<ul style="list-style-type: none"><li>• Two built-in bubble view levels</li><li>• 3-way head to allow for tilt and swivel motion; portrait or landscape options</li><li>• Quick-release mounting plate</li></ul>
Maximum Load	6.6 lbs (3kg)
Compatibility	Compatible with video cameras, digital cameras, still cameras, GoPro devices, smartphone adapters, and scopes
Accessories	<ul style="list-style-type: none"><li>• Carrying case</li></ul>





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## Technical Specifications of a Dynamic Headphone

Transducer type	Dynamic
Operating principle	Closed
Nominal frequency response	5 - 35,000 Hz
Nominal impedance	80 Ω
Nominal SPL	96 dB SPL
Nominal T.H.D	< 0.2%
Power handling capacity	100 mW
Sound coupling to ear	Circumaural
Ambient noise isolation	approx. 18 dBA
Nominal headband pressure	approx. 3.5 N
Weight (without cable)	270 g
Length and type of cable	3 m / straight cable
Connection	<ul style="list-style-type: none"> <li>• Gold plated stereo jack plug (3.5 mm)</li> <li>• 1/4" adapter (6.35 mm)</li> </ul>
Features	<ul style="list-style-type: none"> <li>• Closed diffuse field studio headphone</li> <li>• Innovative bass reflex system</li> <li>• Robust spring steel headband</li> <li>• Single sided cable</li> <li>• Soft inner headband</li> <li>• Gold plated jack plug (3.5 mm) and adapter (6.35 mm)</li> </ul>



## Technical Specifications of a Studio Mic

Microphone Type	Condenser
Mono/Stereo	Mono
Polar Pattern	Cardioid
Diaphragm Size	0.66" (16.93mm)
Frequency Response	20Hz-20kHz
Max SPL	130dB, 150dB w/Pad
Output Impedance	200 ohms
Sensitivity	24 mV/Pa
Signal to Noise Ratio	75dB (A weighted)
Self Noise	19dB (A weighted)
Low Cut Filter	300Hz (-6dB/octave)
Pads	-20dB
Color	Black
Connector	XLR
Dimensions	<ul style="list-style-type: none"><li>• 6.49" x 2.12"</li><li>• Weight: 1 lbs</li></ul>
Included Accessories	Stand Adapter
Manufacturer Part Number	3101H00400



## Technical Specifications of a Desk Mic Stand

Stand Type	Desktop Mic Stand
Base Type	6" Round
Weighted Base	Yes
Height	9" to 13"
Tube Materials	Steel



## Technical Specifications of a USB Audio Interface

Computer Connectivity	USB 2.0
Form Factor	Desktop
Simultaneous I/O	2 x 2
Number of Preamps	1 x mic, 1 x instrument
Phantom Power	Yes
A/D Resolution	Up to 24-bit/192kHz
Analog Inputs	1 x XLR (mic), 1 x 1/4" (Hi-Z)
Analog Outputs	2 x 1/4" TRS
Headphones	1 x 1/4"
USB	1 x Type USB-C
Software	Ableton Live Lite, Focusrite Red Plug-in Suite, Pro Tools First Creative Pack
Compatibility	<ul style="list-style-type: none"><li>• iPad Pro</li><li>• macOS 10.12 or later</li><li>• Windows 7 SP1 or later, Windows 10 v1809 or later</li></ul>
Bus Powered	Yes
Power Supply	USB bus powered



## Technical Specifications of a Nylon Pop Filter

Type	Pop Filter
Material	Nylon Screen
Diameter	6"
Gooseneck Length	11.5"