MAGEWELL

Director Mini Technical Specifications

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Video Input

- HDMI
 - Port: 2x HDMI 1.4 Type-A port
 - Typical resolution/frame rate:
 - 4096x2160p/3840x2160p 23.98/24/25/29.97/30/59.94/60
 - 1920x1080p 23.98/24/25/29.97/30/50/59.94/60
 - 1920x1080i 25/29.97/30
 - 1280x720p 23.98/24/25/29.97/30/50/59.94/60
 - 720x576p 50/100
 - 720x576i 25/50
 - 720x480p 59.94/60
 - 720x480i 29.97/30
 - Color depth: 8/10/12-bit
 - Color sampling: RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2
- USB
 - Port: 2x USB 3.0 Type-A port
 - Resolution/frame rate: Up to 1920x1080p, 60fps
 - Format: YUYV, MJPG, NV12
- Phone Camera
 - Connection mode: LAN
 - Resolution/frame rate: Up to 1080p, 60fps
- SRT stream
 - Resolution/frame rate: Up to 1080p, 60fps
- RTMP stream
 - Resolution/frame rate: Up to 1080p, 60fps
- NDI stream
 - NDI[®] HX2 or NDI[®] HX3
 - Resolution/frame rate: Up to 1080p, 60fps
- Video
 - Resolution: Up to 4K
 - Codec: H.264
 - Format: MOV/MP4
- Picture
 - Format: JPEG/PNG/BMP

Audio Input

- Mic/line in: 1x 3.5mm jack, 2-channel, 48 KHz, 16-bit
- Audio input from HDMI port: 2-channel, 48 KHz, 16-bit
- Audio input from USB port: 2-channel (only microphone supported)
- Audio input from phone microphone
- Audio from SRT stream
- Audio from RTMP stream
- Audio from NDI stream
- Audio embedded in video files
- Background music (BGM): MP3, M4A, WAV files

Video Output

- Streaming and recording
 - Resolution: 1080p, 720p, 540p, 360p (only for NDI)
 - Frame rate: 60fps, 30fps, 15fps
 - Bitrate:
 - NDI[®] HX3: up to 62.0Mbps, down to 1.5Mbps
 - Others: up to 30.0Mbps, down to 256kpbs
 - Key frame interval: customizable
 - Profile: High profile, Main profile, Baseline profile
 - Bitrate mode: VBR, CBR
- USB-C DP-OUT
 - Port: 1* USB 3.0 Type-C port
 - Resolution: 1920x1080
 - Frame rate: 60fps
 - Sampling format: RGB 4:4:4

Audio Output

- Streaming and recording: 2-channel, 16-bit, 48 KHz, aac, 64kbps/96kbps/128kbps
- Headphone output: 1x 3.5mm jack, 2-channel, 48 KHz, 16-bit
- Audio output via Bluetooth device: 2-channel, 48 KHz, 16-bit
- Audio output via USB-C OUT port: 2-channel, 48 KHz, 16-bit
- Audio output via USB-A port: 2-channel, 48 KHz, 16-bit

Features of USB-A Port

- Connect to a USB A/V device, such as webcam, USB microphone, USB speaker, etc.
- Connect to a USB flash drive
 - To transfer video, picture, audio and other media files, firmware update files, log files, etc.
 - Supported system format: FAT32, exFAT and NTFS

Features of USB-C OUT Port

- Connect to an external screen
 - Connection mode: Connect the device to a monitor with a USB-C to HDMI/VGA/DP adapter
 - A/V display mode options: Clean Program, Duplicate Screen, Loop HDMI 1, Loop HDMI 2
 - Image rotation: Rotate 90° to left, or rotate 90° to right
- Connect to a computer
 - Transfer video, picture, audio and other media files, firmware update files, log files, etc.

Network

- Supports Ethernet and WiFi
 - Ethernet: 1x RJ45 port, 10/100/1000 Mbps Base-T
 - WiFi: 2.4G/5G, Station and AP modes supported
- Supports Bluetooth for audio monitoring with Bluetooth devices
 Bluetooth: BT 5.0

Features

- Show
 - Supports creating multiple shows in landscape (16:9) or portrait (9:16) mode, and manage them
- Scenes
 - Supports creating multiple scenes in a show, and managing them
 - Supports adding various sources, including HDMI, WEBCAM, video, picture, RTMP stream, SRT stream, phone camera, NDI stream, text and color
 - Supports multi-view composition in one scene
 - Provides lots of editing tools, including keyer, crop, transition, etc.
 - Supports switch scenes directly or preview at first and then switch
 - Supports switching scenes with an instant cut or fade effect.
- Audio
 - Supports displaying level and peak through audio meter
 - Supports adjusting the level of each input audio, output and monitor audio
 - Supports AFV (Audio-follow-video)
 - Supports solo monitor
 - Supports switching microphone device
 - Supports switching monitor device

- GFX
 - Supports multiple GFX types, including title, lower third, animated text, digital clock, analog clock, bullet list, social media, logo, scoreboard, timer, stopwatch, custom picture and text
 - Supports displaying multiple GFXs, and managing them
 - \circ $\,$ Supports controlling scoreboard, timer and stopwatch in real time $\,$
- BGM
 - Supports adding BGM for each scene and controlling in real time
- Pen
 - Annotates on the screen in real time
- PTZ control
 - Supports controlling PTZ camera via the network, supporting Visca UDP, supported sources including HDMI, WEBCAM (UVC camera), SRT stream, RTMP stream, and NDI stream
- Live stream
 - Natively supports streaming to YouTube, Twitch and Facebook Live
 - · Supports streaming with SRT and RTMP protocols
 - Supports two NDI[®] HX3 outputs
 - Supports customizing encoding parameters and selecting the encoding source for ISO streaming
 - · Supports streaming to two destinations simultaneously
 - Supports showing live comments when streaming to social media
- Record
 - Supports customizing encoding parameters and selecting the encoding source
 - Supports saving recording files in MP4 or MOV format to local storage or SD card
 - Supports saving screenshot files in PNG format to local or SD card
 - $\circ~$ Supports splitting recording files by time or size, up to 1 hour or 4G
 - Supports exporting or downloading files through computer, SD card, USB flash drive, App, or Web UI

Director Utility App

- OS version: iOS 11 and later, Android 7.0 and later
- Phone Camera: Use a phone as a camera
 - Stream images taken by the phone to Director device
 - · Stream images taken by the phone to a destination via SRT
- Remote Assistant: Control Director device remotely
 - Switch and manage scenes, set switch mode and effect, implement FTB, free scene, and control PTZ camera
 - Switch and manage GFX, edit GFX text and picture in real time, and control scoreboard, timer and stopwatch
 - Control audio, including adjusting audio level, switch microphone and monitor device, mute audio and monitor audio exclusively
 - Start/stop recording, take screenshots, and manage album files
 - · Set streaming servers, start/stop streaming, view streaming status and speed, and view live comments
 - Control and manage BGM
 - View real-time device status
 - Power off the device remotely

Web UI

- Set and manage device
- Switch and manage scenes, set switch mode and effect, implement FTB, freeze scene, and control PTZ camera
- Switch and manage GFX, edit GFX text and picture in real time, and control scoreboard, timer and stopwatch
- Control audio, including adjusting audio level, switch microphone and monitor device, mute audio and monitor audio exclusively
- Start/stop recording, take screenshots and manage album files
- · Set streaming servers, start/stop streaming, view streaming status and speed, and view live comments
- Control and manage BGM
- Control media files
- View real-time device status
- Supports registering Magewell Control Hub (V2.1.20 and later) for centralized management

Screen

- Size: 5.44"
- Type: AMOLED
- Aspect ratio: 16:9
- Resolution: 1920x1080
- Brightness: 350 nits
- Color depth: 8-bit
- Contrast ratio: 6000:1
- Color gamut: 105% NTSC

- Refresh rate: 60Hz
- Viewing direction: All
- PPI: 405
- Touchscreen: Capacitive
- Screen coating: Anti-fingerprint coating

Storage

- Local storage: 64 GB
- SD card (not supplied): FAT32 (Under 128G), NTFS, exFAT

Dimensions

• 147.2 mm x 90 mm x 28.5 mm

Power

- AC power
 - Power input: 12V/1.5A
 - Maximum power consumption: 15W
- Battery pack
 - 2x DC 7.4V (NP-F battery packs, not supplied)
 - Hot swappable

Battery Indicators

- QTY: 2
- Green: 50% 100%
- Orange: 25% 50%
- Red: <25%
- Off: depleted

Working Environment

- Operating temperature: -10 to 50 deg C (AC power)
- Storage temperature: -20 to 70 deg C
- Relative Humidity: 5% to 90% non-condensing