# FBW

FOR BETTER WORLD

SELF-MEDIA PRODUCT SERIES

AV20
Two-Channel A&V Switcher

· 2 HDMI inputs, 1 PGM, 1 AUX, 1 THRU, 1 UVc output
· 2 audio inputs for Line-in and microphone
· T-Bar switch with 30+ effects
· Advanced Chroma Key algorithm for film-quality keying
· 8-bit transparent LOGO display, perfect for PNG images.
· Layer 2x2 switching with individ ual settings for position, size,keying, masking, etc.
· Support FTB and static image

Technical Data	
Video Input	HDMI IN x 2
Video Output	PGM x 1 / AUX x 1 / THRU x 1 / UVC x 1
Audio Input	MIC x 2 / LINE x 1
Switching	T-Bar / AUTO / CUT
Effect Switch	WIPE / MIX / DIP / PAT / STILL / MUTE / FTB
Layout	Diverse visual layouts
Matting	Include professional Luma Key、Chroma Key
Audio	HDMI x 2 and MIC / Line level x 1
Audio Latency	0-2s
Media	Support import images or LOGO
AUX Color Space	RGB Full / RGB Limit / YUV
Power	DC 12V
Dimension	210*104*61mm
Weight	640g
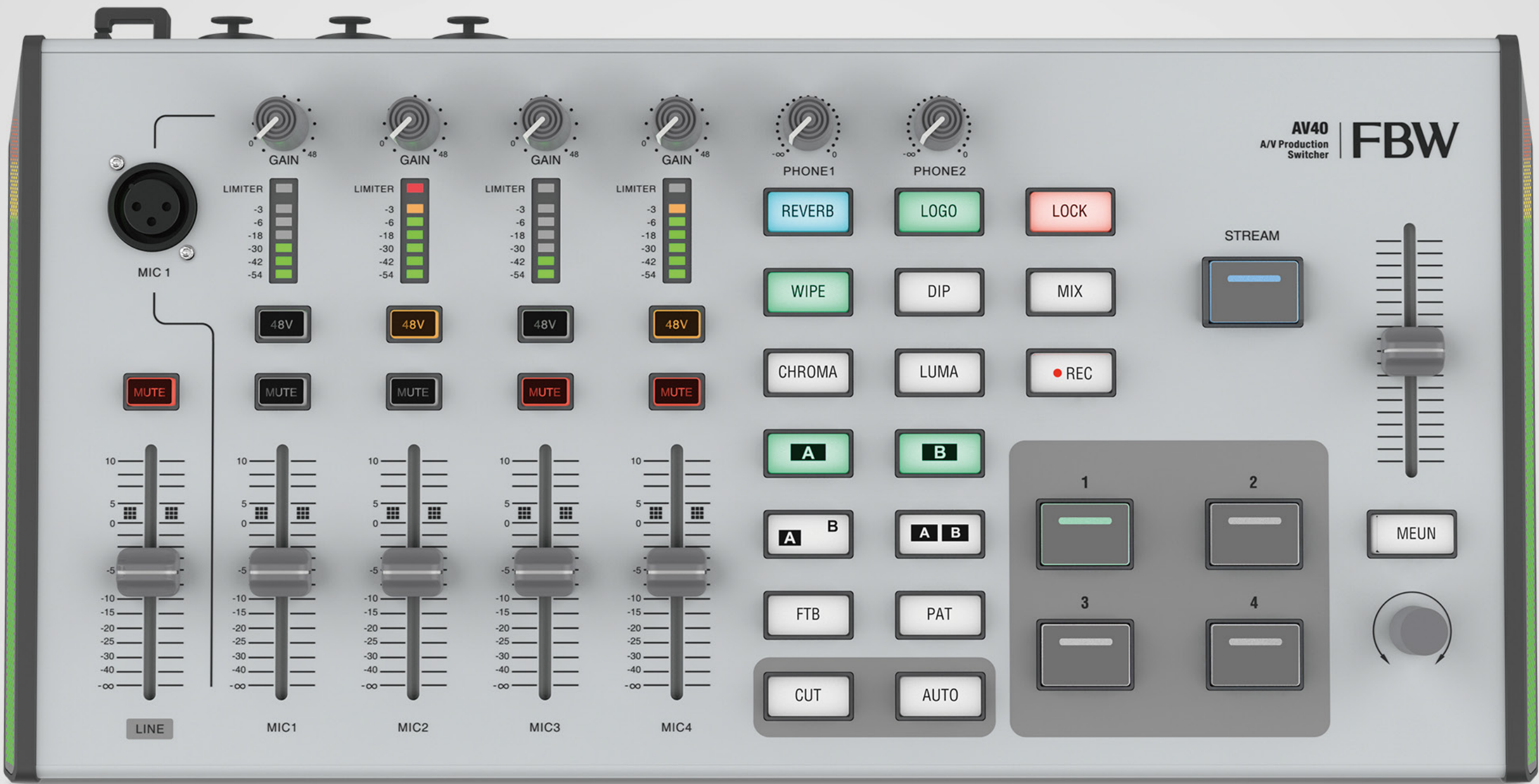
AV40
Four-Channel A&V Switcher

- 4 HDMI inputs, 1 PGM output, 1 PVW output, 1 UVC output
- 4 audio inputs for Line-in and microphone
- T-Bar switch with 30+ effects
- High-quality Chroma Key for cinematic results
- Built-in media library and customizable presets
- 8-bit transparent LOGO display (PNG compatible)
- Layer 2x2 switching with customizable settings
- FTB and static image support
- RTMP multi-streaming for flexible live streaming
- Web-based control for remote management on any device

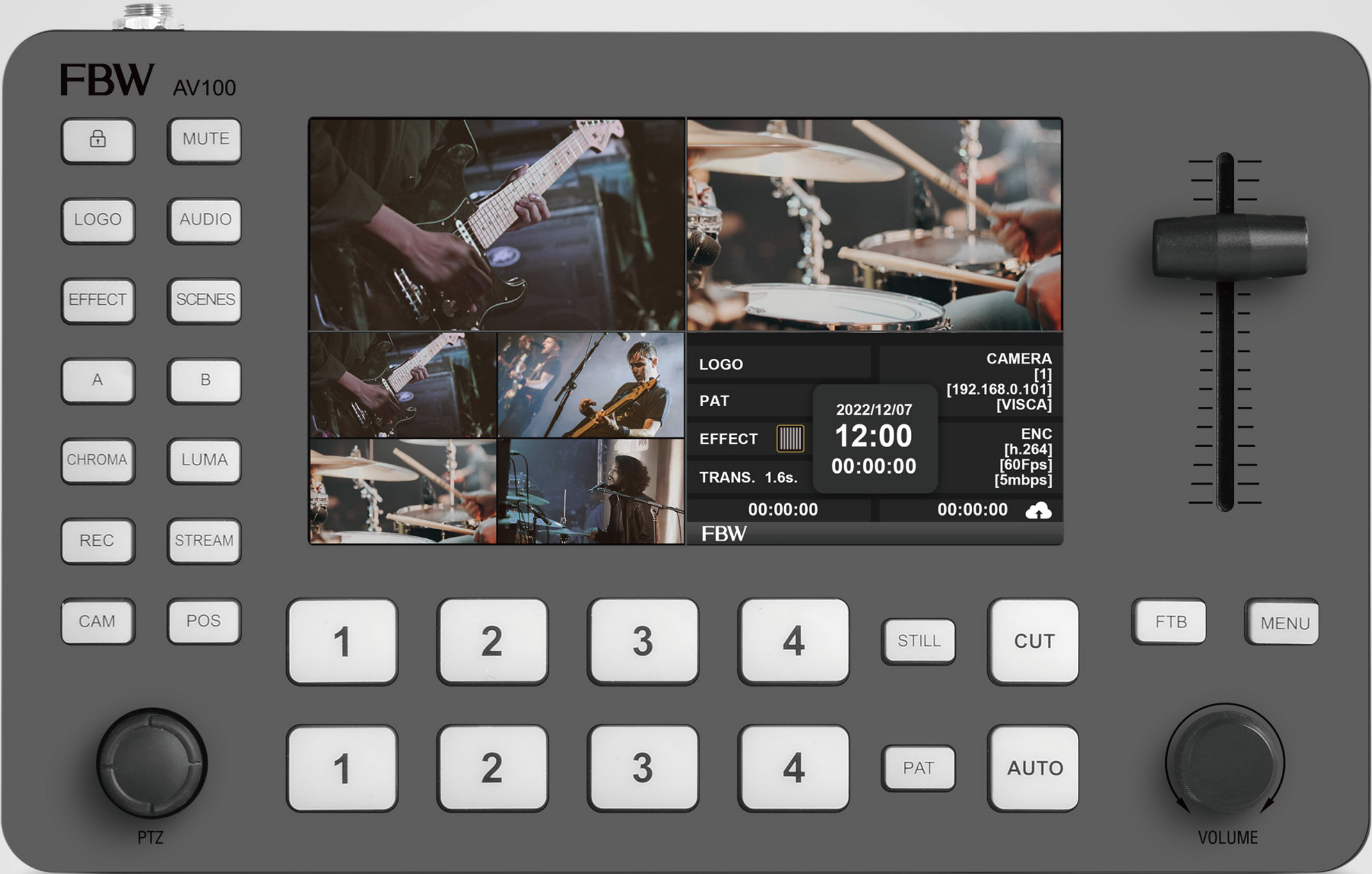| Technical Data	
Video Input	HDMI IN x 4
Video Output	PGM x 1/ PVW x 1
TF	TF x 1 for importing images 、 LOGO updating FW, etc.
USB	USB x 1 UVC pushing video and audio
PC Control Interface	LAN x 1 Internet streaming、 software control
Switching	T-Bar / AUTO / CUT
Effect Switch	WIPE / MIX / DIP / PAT / STILL / MUTE / FTB
Matting	include professional Luma Key、 Chroma Key
Audio	HDMI x 4 and MIC / Line level x 1
Audio Latency	0-2s
Power	DC 12V
Temperature	Working temperature: 0℃~50℃, storage temperature: -30℃~70℃
Dimension	412*210*68mm
Weight	2.4kg

AV4
A/V Production Switcher

· Combined mixer and channel switch
· Four audio inputs with independent control for power, mute, and gain.
· Two headphone outputs with separate volume control.
· Line input and channel gain adjustment
· Overall output level indicator for real-time audio adjustment.
· Four video inputs with built-in capture cards
· One-click picture-in-picture using the fourth HDMI input.
· Picture preview for multi-view monitoring.
· Easy switching between four video screens

Technical Data	
Video Input	HDMI(compitable with DVI)
Video Output	HDMI,USB3.0
HDMI Output Resolution	720P,1080P
Output Refresh Rate	HDMI 60Hz,USB30Hz
Input Signal	MAX:6dBV
Gain range	-6dB ~ +48dB
Frequency Response	20Hz ~ 20kHz(±3dB)
S/N	90dB
Distortion	1kHz 0.02%
Monitoring Driver	16Ω 125mW
Power	1.5A/12V DC
Dimension	360*50*200mm
Weight	2kg

FBW AV100

🔒	MUTE
LOGO	AUDIO
EFFECT	SCENES
A	B
CHROMA	LUMA
REC	STREAM
CAM	POS

LOGO

PAT

EFFECT

TRANS. 1.6s.

2022/12/07

12:00

00:00:00

00:00:00

FBW

CAMERA
[1]
[192.168.0.101]
[VISCA]

ENC
[h.264]
[60Fps]
[5mbps]

00:00:00

PTZ

VOLUME

1 2 3 4 STILL CUT FTB MENU

1 2 3 4 PAT AUTO

AV100
Professional Video Switcher

· Mini switcher, portable and convenient
· 5-inch full HD wide color gamut LCD screen
· Support T-Bar switching, up to 30 kinds of switching effects
· Support Chroma Key cinema-grade image matting
· Support user-defined preset patterns and imported images
· Support 8-bit transparent channel LOGO display
· Support layer 2 cut 2, each layer can set position, size, matting, mask and other functions separately
· Support FTB/ image static frame
· Five-way joystick for quick adjustment of peripheral PTZ control functions
· PTZ camera focus, exposure, white balance, PTZ control, position call and other functions of video coding, recording, storage
· Support RTMP multi-channel streaming media network broadcast platform, flexibly adjust the bit rate, frame rate, etc., and quickly push the stream with one click

Technical Data	
Video Input	HDMI IN x 4
Video Output	PGM x 2 / UVC x 1
Audio input	MIC/Line level(3.5mm stereo)x 2
USB	USB x 1 for importing images、LOGO,updating FW, etc.
PC Control Interface	LAN x 1 Internet streaming、PTZ camera control、software control
Power	DC 7~12V ≤12W
Working Temperature	0℃~50℃
Storage Temperature	-30℃~70℃
Dimension	200.5*123*45mm
Weight	670g

Musical mini mixer interface paths PC interworking function

REC
L   R

LEFT   RIGHT

LEFT   RIGHT
MAINOUT

MIC/LINE   MIC/LINE
+48V
PHANTOM[1-2]
1   2   3/4

FBW MU4

+48V

GAIN   GAIN   GAIN
0   0   0
+20   +64   +20   +64   +20   +64
-6   +38   -6   +38   -6   +38

HIGH   HIGH   HIGH
-15   +15   -15   +15   -15   +15

LOW   LOW   LOW
-15   +15   -15   +15   -15   +15

EFX   EFX   ST
USB

PEAK   PEAK   PEAK

VOL   VOL   VOL
∞   10   ∞   10   ∞   10
1   2   3/4 USB

CH.3/4
STEREO(PRE)
USB AUDIO
USB
BT

USB SD MP3

MP3 IN   USB

▶❙❙   ❙◀◀/−   ▶▶❙/+   MODE/BT
[PRESS]

DELAY
0   10

REPEAT
0   10

VOL
∞   10
MAIN

CLIP
SIG
POWER

VOL
∞   10
PHONE

MU4
Four Channel Mixer

- Built-in sound card
- Bluetooth module
- Two stages of equilibrium
- Headphone monitoring interface
- 48V phantom power supply

Technical Data	
Input Channel Sensivity	-60dB
Stereo Ch.input	-40dB
EFX Send	-20dB
EEF Return	-20dB
Outputs	4V MAX
Signal To Noise Ratio	-80dB
Parametric EQ	HI: ±15dB/12kHz
	LOW: ±15dB/60kHz
size	150*55*185mm
weight	500g

MU6
Six Channel Mixer

- Built-in sound card
- Bluetooth module
- Two stages of equilibrium
- Headphone monitoring interface
- 48V phantom power supply

Technical Data	
Input Channel Sensitivity	-60dB
Stereo Ch.input	-40dB
EFX Send	-20dB
EEF Return	-20dB
Outputs	4V MAX
Signal To Noise Ratio	-80dB
Parametric EQ	HI: ±15dB/12kHz
	LOW: ±15dB/60kHz
Size	225*55*185mm
Weight	700g

FBW

M2

Dual-channel Wireless Microphone System

· Ultimate lightness design
· Support multiple ways of wearing
· Integrated design of receiver and charging compartment, lightweight and portable
· Quick disassembly hot shoe design, easy to use
· High signal-to-noise ratio and low delay to meet the requirements of professional recording
· Iron gray and ivory two colors for option

Technical Data			
M2R	Receiver	M2T	Transmitter
Working Time	>7h	Working Time	>3h
Working Range	>15m	Communication Way	2.4G
Latency	<12ms	Power Supply	Built-in lithium battery
Frequency Response	120Hz~12kHz±2dB	Charging Mode	Built-in Receiver charging
SNR	>90dB	Charging Time	<2h
Distortion	<0.05%@1kHz	Battery	90mAh
Power Supply	Built-in lithium battery	Dimension	Ø27mm*13mm
Charging Mode	Type-C 5VDC/500mA	Weight	7g
Charging Time	<2h		
Battery	500mAh		
Dimension	73mm*29mm*35mm		
Weight	36g		

LM100
Desktop Microphone

· Perfect pickup solution for personal live streaming
· High sound quality microphone
· Excellent vocal performance
· Supercardioid capsule, effectively filter out environmental noise
· XLR interface, pure sound signal transmission
· Mute with one click

Technical Data	
Element	Back electret
Directivity	Supercardioid
Frequency Response	40Hz ~ 16KHz
Sensitivity	-34dB±3dB(1dB=1V/Pa at 1kHz)
Output Impedance	200Ω±20%(at 1kHz)
MAX SPL	130dB(T.H.D≤1% at 1kHz)
S/N	≥78dB(1KHz at 1Pa)
Pickup Angle	120°
Power Supply	48V
Output Interface	XLRM Three needle male cannon
Dimension	85 x 350mm
Weight	238g

FBW

LM200

Dual-channel Desktop Microphone

· Perfect pickup solution for two-person live streaming
· High sound quality microphone
· Excellent vocal performance
· Supercardioid capsule, effectively filter out environmental noise
· XLR interface, pure sound signal transmission
· Mute with one click, independent control
· Exclusive nameplate display position
· Rotatable design, support two-person side by side or face-to-face interviews

Technical Data	
Element	Back electret
Directivity	Supercardioid
Frequency Response	40Hz ~ 16kHz
Sensitivity	-34dB+3dB
MAX SPL	130dB
S/N	>78dB (1kHz at 1Pa)
Dimension	200*90*90mm(Without acrylic plate)
	360*90*122mm (Without acrylic plate)

CUCKOO
USB SMALL DIAPHRAGM CONDENSER MICROPHONE

· Compact design, save desktop space
· USB-C plug and play, built-in sound card, no driver required
· Support earphone monitoring, gain knob can adjust the earphone monitoring and recording sound simultaneously
· Cardioid pickup mode, reduce side and rear noise
· Clear and smooth sound, suitable for most speech needs
· 16-bit depth and 48kHz sample rate recording quality, wide audio capture range
· Fashionable metal stand

Technical Data	
Frequency Response	100Hz ~ 20kHz
Distortion Degree (THD N)	0.13%
S/N	96dB
Max Gain	33dB
Sensitivity	-38dB
Power Supply	5V/95mA
Dimension	52*105*32mm
Weight	100g

MAGPIE

USB SMALL DIAPHRAGM CONDENSER MICROPHONE -METAI VERSION

· Volume adjustment
· USB-C interface
· Support earphone monitoring
· Detachable stand
· Mute function

Technical Data	
Frequency Response	100Hz ~ 20kHz
Distortion Degree (THD N)	0.13%
S/N	96dB
Max Gain	33dB
Sensitivity	-38dB
Power Supply	5V/95mA
Dimension	43*121*43mm
Weight	200g

HERON
USB LARGE DIAPHRAGM CONDENSER MICROPHONE

· Large diaphragm capsule
· Volume adjustment
· USB-C interface
· Suppoert in-ear monitoring
· Removable bracket
· Mute function

Technical Data	
Frequency Response	60Hz ~ 20kHz
Distortion Degree (THD N)	0.3%
S/N	96dB
Max Gain	35dB
Sensitivity	-35dB
Power Supply	5V/500mA
Dimension	61*145*55mm
Weight	300g

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WM150

Frequency Response

AP
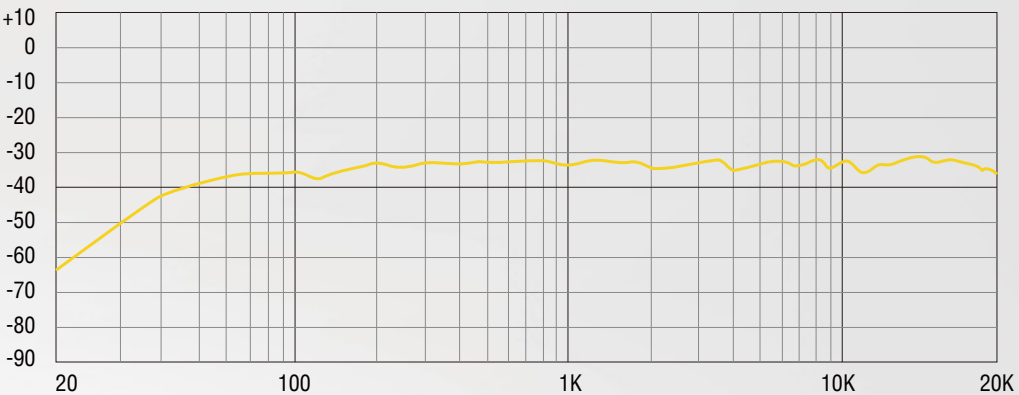
WM150
Recording Microphone

· 4000Hz gain
· 48V phantom power supply, support indoor and outdoor uses
· Equipped with a wide and balanced frequency response range
· Equipped with gold-plated XLR connector to get the ideal audio current transmission

Technical Data	
Element	Back electret
Directivity	Supercardioid
Frequency Range	30Hz ~ 18kHz(±3dB)
Sensitivity	-33dB ±3dB(1dB=1V/Pa at 1kHz)
Output Impedance	600Ω ±20%(at 1kHz)
MAX SPL	130dB(T.H.D≤1% at 1kHz)
S/N	72dB(1kHz at 1Pa)(A-Weighted)
Equivalent Noise Level	≤25dBa
Power Supply	48V DC / 1.5V AA / UM3，2mA
Switch	Three adjustable modes
Output Interface	XLRM
Dimension	150*25mm(Diameter)
Weight	92.5g

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Frequency Response

Standard Mode ——
-10dB PAD (Emergency Access) ——

AP
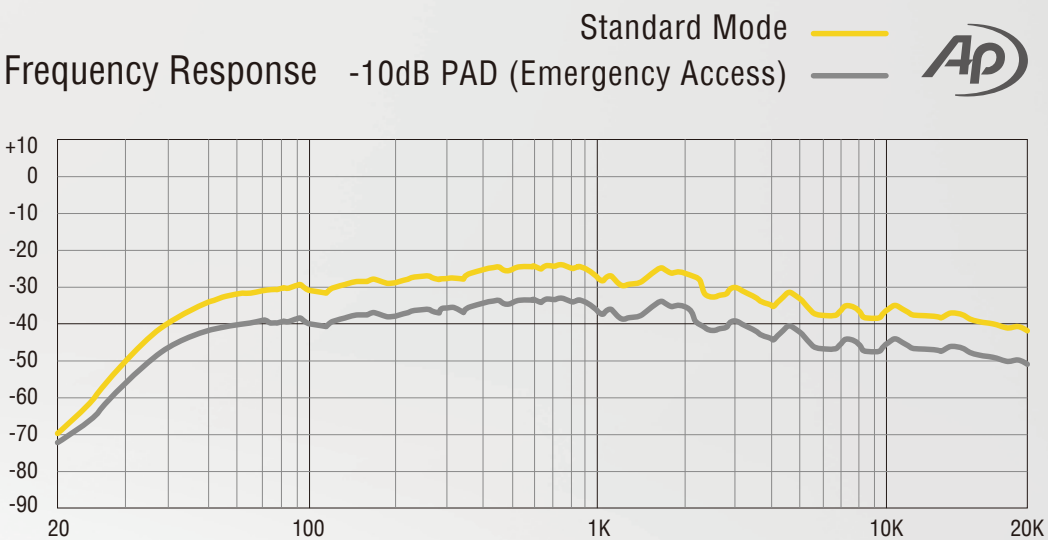
WM214
Recording Microphone

- Built-in acoustic interference tube to suppress off-axis noise
- With windproof wool cover, wind noise can be effectively suppressed
- Equipped with dual shock absorbing cold boot bracket, can effectively reduce vibration
- Gain knob controls both microphone amplifier and headphone amplifier
- Microphone with in-ear monitoring can simultaneously listen to the captured sound
- 75Hz and 150Hz optional low cut switch, support recording in noisy environment
- Overload protection prevents recording overload and ensures acoustic clarity

Technical Data	
Element	Back electret
Directivity	Supercardioid
Frequency Response	20Hz ~ 20kHz
Dynamic Range	119dB SPL(A-weight per IEC651)
S/N	82dB(1kHz at 1Pa)(A-weight per IEC651)
Sensitivity	-24dB±2dB(1dB=1V/Pa at 1kHz)
MAX SPL	124 dB SPL
Output Impedance	16Ω (earphone interface)
	300Ω ±20%(at 1kHz)(Line out)
Low Frequency Attenuation Filtering	75Hz/150Hz
Output Interface	Type-C to 3.5mm
Dimension	214.5*21.5mm(diameter)
Weight	85g

FBW

Frequency Response
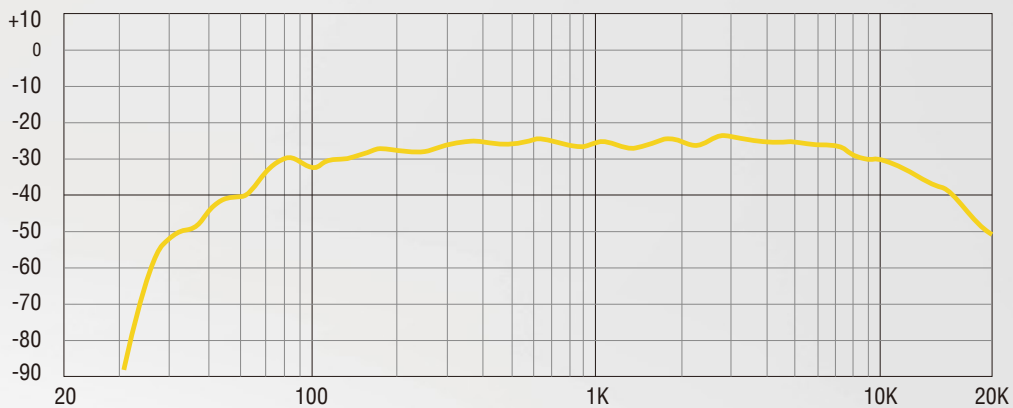
WM112
Portable Interviewing Microphone

· Supercardioid microphone
· Adopt the principle of acoustic interference
· Suitable for indoor and outdoor recording and
  interviewing

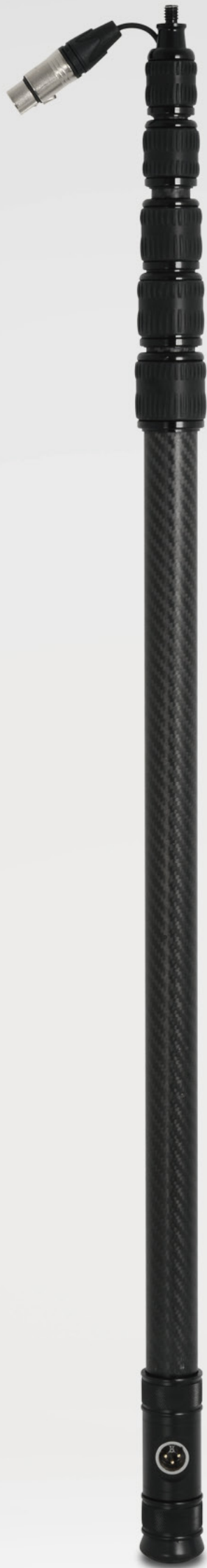| Technical Data	
Element	Back electret
Electret Spec	10mm(Diameter)
Directivity	Supercardioid
Frequency Response	80Hz ~ 10kHz(±3dB)
Sensitivity	-26dB±3dB(1dB=1V/Pa at 1kHz)
Output Impedance	≤2.2Kless than 2.2K
MAX SPL	120dB±3dB(T.H.D≤1% at 1kHz)
S/N	55dB
Power Supply	1.5V ~ 5V
Output Interface	3.5mm Four-stage plug
Dimension	112*13mm(Diameter)
Weight	18g

FBW

WM Basket

OUTDOOR INTERVIEW WINDPROOF KIT

· Greatly reduces wind and rubbing noise
· Wind cage suspension system with built-in spacer guide
· Lightweight handle with built-in 3/8" screw connection
· Recommended to use with an interview microphone length about 295mm, diameter about 19-22mm

Technical Data	
Size	255*425*110mm
Weight without handle	195g
Weight with handle	510g

WM Pole

Pole

· Carbon fiber material, light weight design
· 4-section retractable
· Interchangeable top screw ends
· Detachable internal wires
· Removable bottom interface module

Technical Data	
Sections	4
MinLength	755mm
MaxHeight	3000mm
Support Weight	2kg