

# DL24B

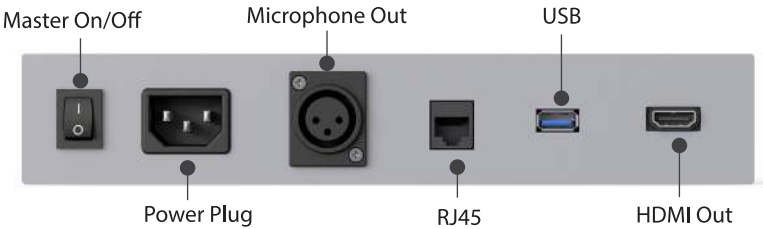
DIGITAL PODIUM



### Connectivity In



### Connectivity Out



DL24B is designed to meet the basic needs in a conference room. Connecting the existing projector and sound system to DL24B is easy. In case there is not any projector, sound system, or network connection, DL24B can satisfy your needs as a stand alone product.

	DL24B
Multi touch speaker screen	22"
Front Screen with Embedded Signage Media Player	43"
Front Screen Content Management Software	✓
Player PC : Intel i3 4GB, 120 GB SSD Win 10 Embedded iot OS	✓
Microphone	✓
Creapen Annotation Software	✓
3.5" Digital Touch Timer	✓

# Microphone

## Shure I8 CVGI8S-B Microphone



Designed with dual gooseneck sections for full articulation, the CVGI8 provide scalable, best-in-class performance in a wide variety of locations.

Features

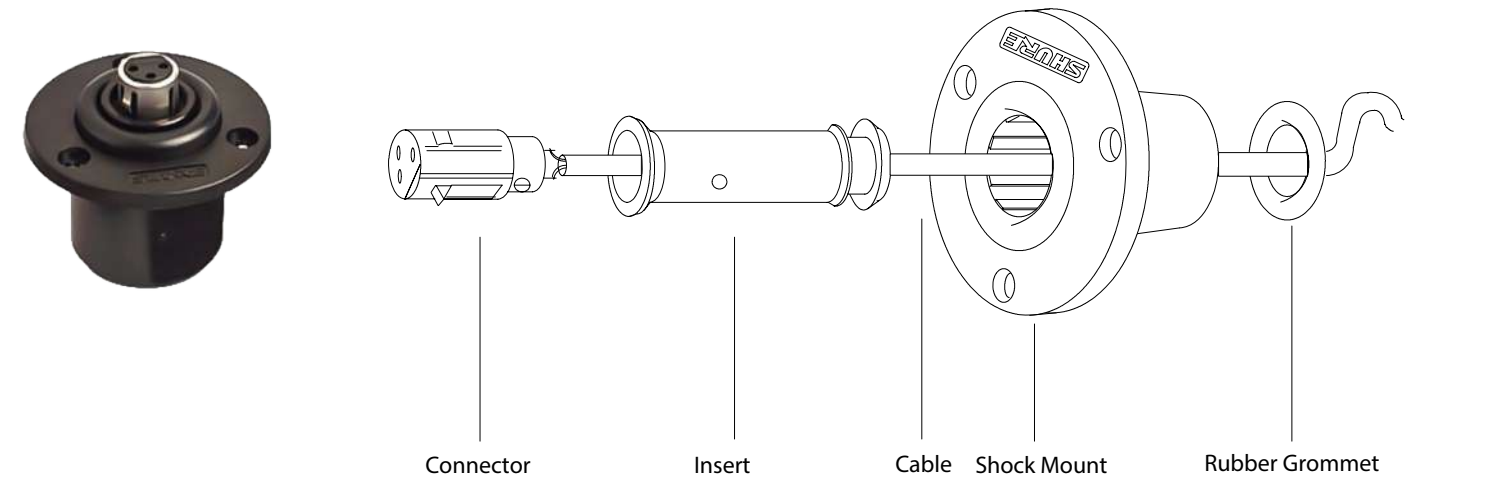
- Cardioid polar pattern with tailored response for speech
- Dual-section gooseneck enables ease of positioning and placement options
- Included Flange Mount and available snap-fit windscreens (ACVG4WS-B – 4 pack)
- With Mute switch/LED,
- Guards against unwanted RF Interference from portable wireless devices gh resistance to intense nearby radio signals
- Superior Shure design and rugged, dependable construction
- Noise by up to 20 dB.

Specifications	
Cartridge Type Electret Condenser	Electret Condenser
Frequency Response	70–16000 Hz
Polar Pattern	Cardioid
Output Impedance	180 Ω
Sensitivity (at 1 kHz , open circuit voltage)	–33 dBV/Pa[1] (22 mV)
Maximum SPL (1 kHz at 1% THD)	120 dB SPL
Signal to Noise Ratio (referenced at 94 dB SPL)	67 dB
Dynamic Range	93 dB
Self Noise (equivalent SPL, A-weighted, typical)	27 dB SPL
Common Mode Rejection (10 Hz to 100 kHz)	45 dB
Preamplifier Output Clipping Level (1% THD)	–7 dBV
Polarity	3
Power Requirements	11–52 V DC[4], 2.0 mA

## Shure A400SMXLR Shock Mount

Shure A400SMXLR Shock Mount Socket

A400SMXLR Shock Mount decouples a microphone from the mounting surface and reduces transmission of impact or surface



# Front Screen

Samsung QM43R



Display any content in ultra-high definition with incredibly rich color on slim, efficient signage.

Through intelligent UHD upscaling technology, Samsung's QMR series performs edge restoration and noise reduction to deliver UHD picture quality even with lower resolution content. As an added benefit, the QMR series also features reliable, non-glare panels that provide better visibility from all angles. Backed by Tizen 4.0, the QMR series provides reinforced capability with multiple web formats and secured protection.

- Engage customers with lifelike images through ultra high-definition resolution
- Deliver UHD-level picture quality even with lower resolution content through innovative UHD upscaling technology and unique picture-enhancing features
- Dynamic Crystal Color allows viewers to enjoy a wider spectrum of colors, up to one billion shades
- Secure, PC-free operation through Knox and rigid three-layer protection
- Reliable, non-glare panels provide better visibility from all angles,

## The all-new embedded media player powered by TIZEN™

A key aspect of the enhanced TIZEN-based SSSP 4.0 platform, Samsung's MagicInfo Player S4 enables users to fully leverage the power of their display network from any location through a centralized server. More useable than ever, MagicInfo Player S4 merges a dedicated Backup Player with DataLink content streaming capabilities to reduce the effort needed to share vital information.



PC-less Touch



Centralized Management



Intuitive UI



**Integrated Signage Media Player**  
powered by Samsung MagicInfo S4 Tizen



**Built in Wi-Fi**  
Connect the screen to the CMS wirelessly via the integrated Wi-Fi, ethernet or by LAN

Specifications	
Diagonal Size	43"
Type	Edge LED BLU
Resolution	UHD (3840 x 2160)
Pixel Pitch(mm)	0.2451 x 0.2451
Active Display Area(mm)	941.184 (H) x 529.416 (V)
Brightness(Typ.)	500
Contrast Ratio	4000:1
Viewing Angle(H/V)	178/178
Response Time(G-to-G)	8ms(Typ.)
Display Colors	16.7M
Color Gamut	72%
Operation Hour	24/7
Internal Player (Embedded H/W)	
Processor	Coretex A72 1.7GHz Quad-Core CPU
On-Chip Cache Memory	L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB
Clock Speed	1.7GHz
Main Memory Interface	2.5GB LPDDR4 1.5GHz 64bit
Graphics	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.)
Storage (FDM)	8GB (3.88GB Occupied by O/S, 4.12GB Available)
Multimedia	MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 AC3 (DD), MPEG
IO Ports	USB 2.0
Operating System	Tizen 4.0 (VDLinux)

Speaker Screen

iiyama Prolite T2236MSC-B2

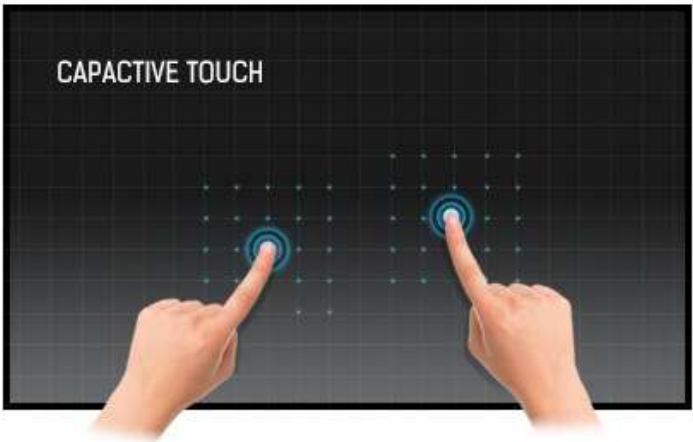


22" 10 point touch monitor with edge-to-edge glass and AMVA panel

With its Full HD (1920x1080) resolution and accurate Projective Capacitive 10 point touch technology, the ProLite T2236MSC delivers seamless and accurate touch response.

The AMVA panel technology guarantees high performance with excellent colour reproduction and high contrast, making it an excellent choice for a vast array of demanding interactive applications.

Touch Technology



This technology uses a sensor-grid of micro-fine wires integrated into the glass that covers the screen. Touch is detected because electrical characteristics of the sensor grid change when human finger is placed on the glass. Thanks to the glass overlay this technology is highly durable, and the touch function remains unaffected even if the glass is scratched.

It offers perfect picture performance and will work with human finger (also latex gloved) and stylus-pen.

Specifications	
Diagonal	21.5"; 55cm
Aspect Ratio	16 : 9
Panel Amva	LED
Native Resolution	Full HD 1080p, 1920 x 1080 ( 2.1 megapixel)
Brightness	250 cd/m² typical
Brightness	215 cd/m² with touch panel
Advanced Contrast	12 000 000 : 1 ACR
Static Contrast	3 000 : 1 with touch panel
Response Time	8 ms
Viewing Zone	horizontal/vertical: 178° / 178°; right/left: 89° / 89°; up/down: 89° / 89°
Display Colour	16.7 million
Blue Light Reducer	yes
Touch Technology	projective capacitive
Touch Points	10
Glass Hardness	7H minimum
Light Transmittance	85%
Display Area	H X W 268.1 x 476.6 mm; 10.6" x 18.8 "
Pixel Pitch	H X V 0.248 x 0.248 mm
Horizontal Sync	30 - 80 KHz
Vertical Sync	56 - 75 Hz
Synchronization	Separate Sync
INTERFACES / CONNECTORS / CONTROLLERS	
Analog Input Connector	VGA
Digital Input Connector	DVI, HDMI
USB HUB	UP 1 x USB 3.0 / DOWN 4 x USB 3.0
Controls	USB (touch), USB 3.0

Front Panel



Rear Panel

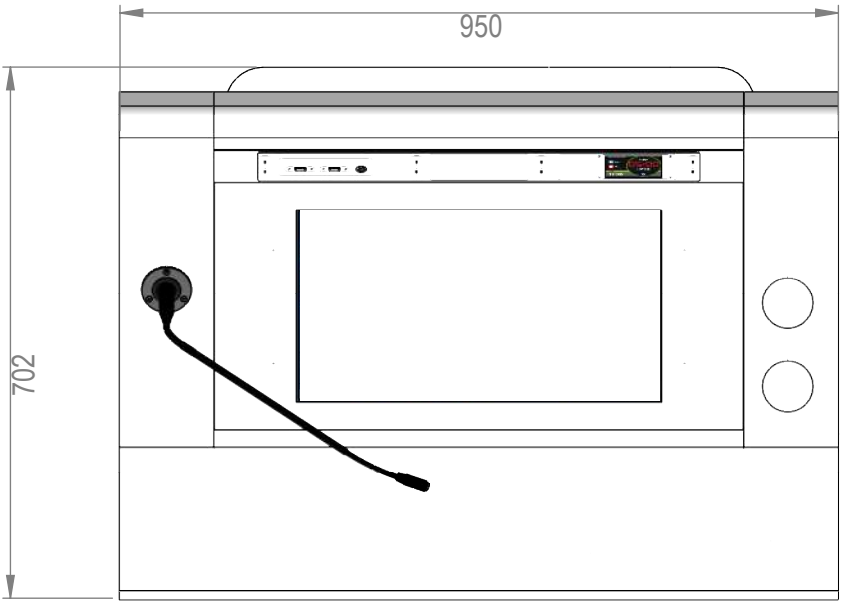
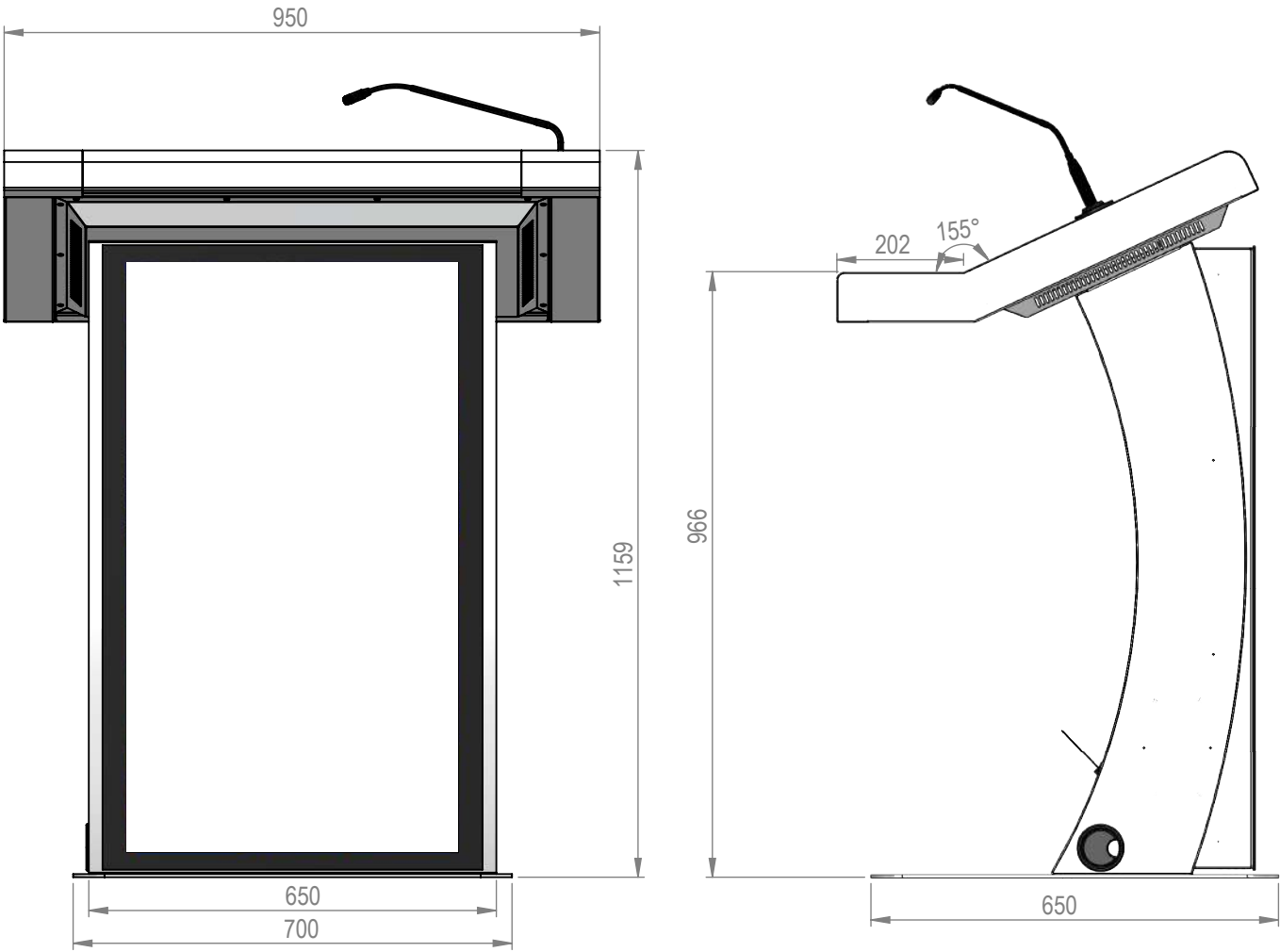


Specifications	
Operating System	Windows 10 Embedded IoT
Processor	Intel Core i3
Chipset	Intel H310 Express chipset
Ram	4GB
Video	HDMI x1 + DisplayPort x1 Supported double screens , 4K Play
Storage	120 GB SSD
Audio	2 Channels
Network	2 x 10/100/1000 Gigabit LAN (Intel Chipset), WIFI (Optional)
Ports	4 x USB3.0 - 2 x USB2.0 - 1 x HDMI - 1 x Display Port - 1 x eSATA+USB2.0 COM port 2 x RJ45
Case	Ultra Mini ITX
Power	90W 19V Adapter

Windows10  
Embedded

Operating System

■ MECHANICAL SPECIFICATIONS



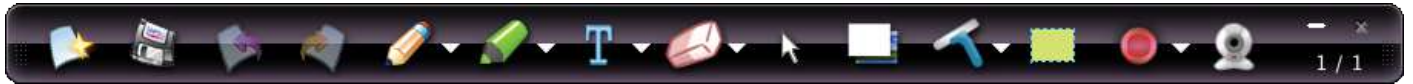


# Application

■ Creapen Software

## Screen Annotation & Screen Recording Solution for Presentations

CreaPen is an extremely simple yet powerful screen annotation and recording software. You can easily write on top of any other application that is currently active on the desktop, even on a running video. You can then save your annotations as an image file or even record the whole session as a video for sharing. It is a useful tool for presenters to communicate and share ideas during a live session, for educators to create effective video tutorials and for salespeople to create impressive video presentations.



Text Input



Whiteboard



Multiple Pages



Screen  
Recording



Screen  
Annotation



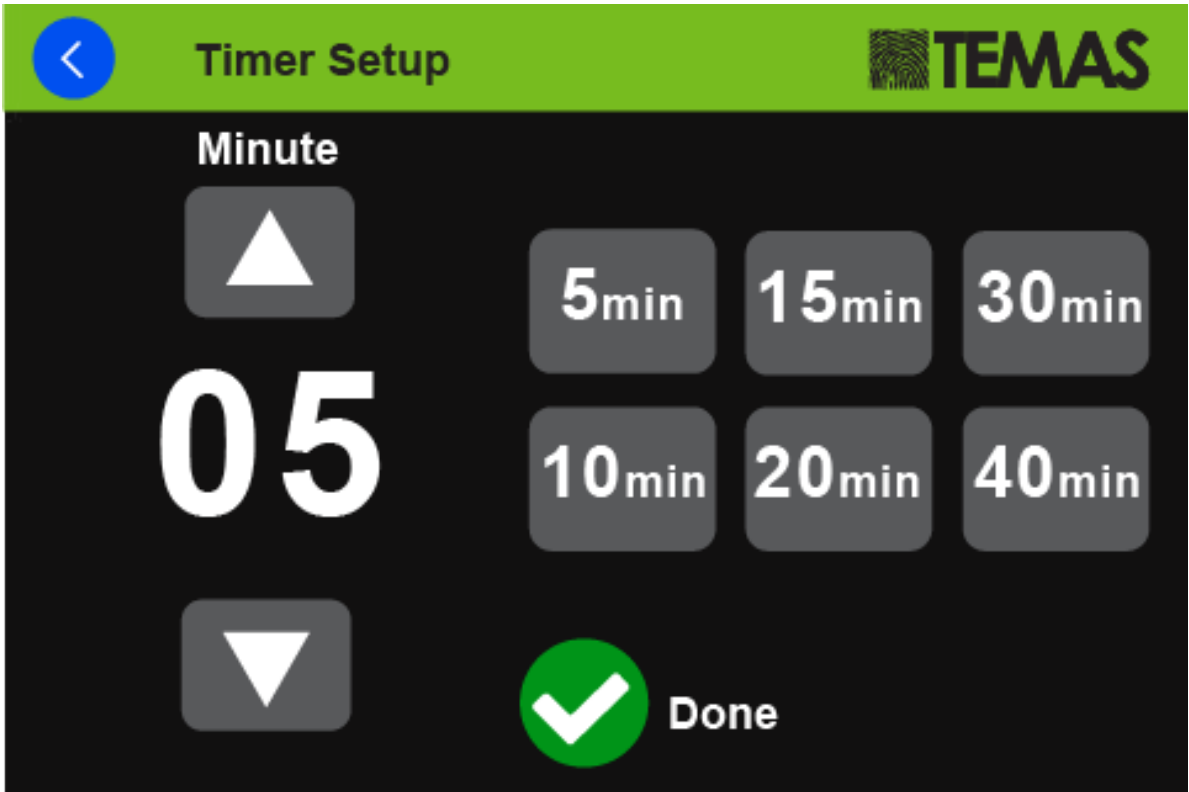
Web Camera





Application

■ 3,5” Touch screen Timer & Clock



# Amplifier

## ■ Atlona Stereo/Mono Audio Amplifier



- AT-PA100-G2 is a class D amplifier which uses less energy, doesn't require heat syncs or power transformers, making it smaller than a class A/B amplifier
- Stereo, mono, and bridge audio speaker output connections available through captive screw
- Has a variable 3.5mm audio loop out for cascading to another AT-PA100-G2 or connecting to other audio amplifiers
- 3 pin captive screw MIC input can support balanced and unbalanced signals
- Energy efficient standby mode only requires 4Ws of power. AT-PA100-G2 goes into standby mode if an audio signal isn't present
- Control through the panel buttons, an (optional) IR remote, and RS-232
- 3 position input switch: 48V phantom power - best for condenser MICs without battery power
- MIC - Great for Dynamic MICs and battery powered condenser MICs Line - Connect a Wireless
- Volume, Bass, and Treble can be controlled through RS-232, IR, or panel buttons

Specifications	
Rated Output	20 W x 2 40 W x 1 (Bridged Operation)
Gain	32dB
Frequency Range	20Hz to 20KHz
Signal/Noise Ratio	80dB (at max output)
Total Harmonic Distortion	1% (1KHz), 0.3% (20KHz) -- at nominal levels
Input Impedance	Input 1&2: >10KΩ
MIC Input Impedance	48V: 35KΩ MIC: 10KΩ LINE: 75KΩ
Output Impedance	3.5mm Loop Out: 50Ω stereo Speaker out: 4 ~ 8Ω Amplifier
Stereo Channel Separation	75dB from 20Hz to 20KHz
Common Mode Rejection Ratio	70dB from 20Hz to 20KHz
MIC Audio Detection Delay	1 ms
Temperature Operating	0°C to 40°C 32°F to 104°F
Temperature Storage	-20°C to 60°C -4°F to 140°F
Temperature Humidity	20 to 90% non-condensing
Power Consumption	40W
Power Idle Consumption	4W
Power Supply	Input: AC100~240V 50/60Hz Output: DC 24V/5A

## ■ Dual Cone Loudspeaker



The Apart CM4T is the ideal match between size and sound! Just one size bigger than a halogen-spot model (CM3T), this 70 / 100 volt loudspeaker looks great and produces an amazing powerful sound.

Features
outside diameter in mm 135
cutout in mm 108
loudspeaker system dual cone
woofer cone material coated paper
colour white / black / silver
70V transformer power taps in watts 6 - 3 - 1.5 - 0.75
low impedance dynamic power in watts 30
SPL 1W/1m in dB 88
frequency response in Hz 90 - 19K
applicable low impedance yes

Technical specifications

	DL24B
■ Front Panel	43”
Resolution	1920x1080 FHD
Brightness	500 cd/m2
Aspect ratio	16:9
Panel Type	IPS
Built-in Player	Available
■ Lecturer Panel	
Screen Specifications	22”
Resolution	1920x1080
Brightness	250 cd/m2
Aspect Ratio	16:9
Number of Touch Point	10 Points Capacitive
Lecturer Panel PC	
CPU	Intel Core i3
RAM	4 GB DDR4
HDD	120 GB SSD
Operationg System	Windows 10 Embedded IoT
■ Microphone	
Lenght	18”
No of microphone	1 pcs
Output Connector	3-way XLR(Male)
Microphone Type	Cardioid
Frequency Response	50-18 kHz
Power ON Indicator	LED
Power Requirement	Phantom Power (48V)
■ Outpots (Bottom of Podium)	
HDMI	Available
Ethernet	RJ45
XLR for microphone	3-way XLR(Male)
USB	USB 2.0
■ Timer & Chronometer	
Screen size	3,5"
Clock	Available
Timer	Available
Stopwatch	Availab
Touch	Single Touch
■ Mechanical Specs	
Product dimensions W x D x H	702 x 950 x 1159
Packing dimensions W x D x H	880 x 1090 x 1390
Weight(kg)	Set: 84 kg   Package: 139 kg