PentaClass

CERTES
Technology enhancing

CERTES PENTACLASS X2 RUNA

OMNIDIRECTIONAL 360° SOUND SYSTEM WITH RUNA O, RUNA W AND HEADSET MICROPHONE

360° OMNIDIRECTIONAL SOUNDFIELD
Enjoy truly rich sounds whenever you are seated in the room.

TWO RUNA MICROPHONE CONNECTION
Connect Runa W and Runa O microphones simultaneously

BLUETOOTH CONNECT
Stream to your PentaClass wherever you are in the r

LED STATUS INDICATI
A specific light will illumi on the top panel.

EASY INSTALLATION
In a matter of minutes yc can install the PentaClass using the supplied mount on a ceiling or wall.



REMOTE CONTROL
Remote control for the easy operation of your PentaClass.

AUDIO PRESETS
Choose voice, multimedia and music presets.

AUTO POWER OFF
Automatic power-saving mode to save energy.

1300 SQFT (120 SQM) COVERAGE
Suitable for room sizes of up to 1300 ft² (120 m²).

VERSATILE USE
Use as portable or installed.

TECHNICAL SPECIFICATION

SPEAKER SPECIFICATION

Frequency Response	40 Hz - 20 kHz
Output	45 W @ 8 Ω
Loudness	88 dB
Inputs	1 x AUX, 3.5 mm stereo
Output	1 x AUX, 3.5 mm stereo, mixed
Power Requirements	110V/240V AC 50-60Hz 1A
Power saving mode	Auto turn OFF after 20 min. inactivity
Status indication	Indication of exact status of PentaClass
Amplifier	Class D, 44 100 kHz sample rate, 24 bit resolution, digital audio processor (DAP), dynamic range compression (DRC), soft mute
Mixer	Two channel mixer: 1) Mixes AUX input channel with Bluetooth (AB and Runa models), and AUX input channel with microphone (Runa model)
Control	Infrared remote control with 7 buttons (Speaker power on/off, Mute, Audio presets, Speaker volume up, Speaker volume down, AUX on/off, Bluetooth on/off (enabled for AB and Runa models)
Built in equalizer presets	Speech, Multimedia, Music, Mega bass
Acoustics	Omni-directional, plywood sound box, fine tuned port. Designed for rooms up to 1291 sq ft (120 m²).
Dimensions (W x H x D)	9.45 x 9.45 x 9.06 inch (24 x 24 x 23 cm)
Weight	6.61 lbs (3 kg)
Mounting	Universal wall/ceiling mount for drop and concrete ceilings supplied
Included accessories	Power supply, power cord, remote control, wall / ceiling mount, user manual, 2 microphones, headset mic

AUDIO INPUT / OUTPUT ELECTRICAL CHARACTERISTICS

Aux In Input Impedance	29 kΩ
Maximal Aux In Input Level	2.83 Vpp
Aux Out Output Impedance	320 Ω
Typical LINE OUT Output level (0 dB @ 10 kW load)	2.61 Vpp

BLUETOOTH SPECIFICATION

Bluetooth version	Version 2.1 + EDR, Class 2
Data rates	Up to 3 Mbps (over the air)
Frequency range	2402 - 2480 MHz
Range	Up to 82 feet (25 meters)
Receive Sensitivity	Better than -86 dBm
Wireless Specification	802.11 b/g
Profiles	A2DP
Audio codec support	SBC, AAC and apt-X for high quality audio applications

2.4 GHZ MICROPHONE RECEIVER

Frequency band	ISM 2.4GHz
Audio Transmission	Un-Compressed audio transmission 44,1 kHz 16bit
Frequency range	2400 - 2483.5 MHz, 18 channel adaptive frequency hopping
Range	Up to 82 feet (25 meters)

For more information visit
www.certestechnologies.com

Runa

CERTES
Technology enhancing



RUNA O
SECONDARY

RUNA W
PRIMARY



2.4 GHZ WIRELESS PENDANT HD MICROPHONE



PRODUCT FEATURES

TWO MICROPHONES FOR SIMULTANEOUS USE

with the PentaClass - Runa W as primary,
Runa O as secondary.

CONTROL IN YOUR HANDS

RUNA doubles as a remote control for quick, easy use.



EXTERNAL MICROPHONE CONNECTIVITY

Convenient solution for those who prefer wearing a headset mic.



7 HOUR RECHARGABLE BATTERY

7 hour battery life with one charge, charge it with standard mini USB charger.







TWO WEARING OPTIONS

By clip or by lanyard, choose which fits your style.

RUNA MICROPHONE SPECIFICATION

Frequency band	ISM 2.4GHz
Audio Transmission	Un-Compressed audio transmission 44,1 kHz 16bit
Frequency range	2400 - 2483.5 MHz, 18 channel adaptive frequency hopping
Range	Up to 82 feet (25 meters)
Audio Level control	Manual and AGC (Auto Gain Control)
Signal to noise ratio (typical)	74 dB
Power	Built in rechargeable Li-Po battery
Battery life with full charge (active mode)	7 hours
Recharging time	up to 4 hours
Microphone IR range	23 feet (7 meters)
Status indication	RG LED
Dimensions (W x H x D)	1.18 x 2.6 x 0.55 inch (3.0 x 6.5 x 1.4 cm)
Weight	0.98 oz (28g)
Charger	USB 5V 1A
Connectivity	Micro USB - charging and firmware upgrade, 2.5mm audio input - external microphone connection
Power Requirements	110V/240V AC 50-60Hz 1A
Control in remote control mode	Infrared remote control built in with 3 multifunctional buttons (Speaker power on/off, Mute, Audio presets, Speaker volume up, Speaker volume down, AUX on/off, Bluetooth on/off)
Control in microhone control mode	3 multifunctional buttons (Microhone on/off, Mute, Microhone volume up, Microhone volume down)
Wearing options	Lanyard or clip
Included accessories	1x USB Charger, 1x Lanyard, 1x USB-micro USB Cable

For more information visit
www.certestechnologies.com

Runa

CERTES
Technology enhancing

RUNA HEADSET MICROPHONE





TECHNICAL SPECIFICATION

Element	Back Electret Condenser
Poloar Pattern	Uni-directional
Frequency Response	70-16K Hz
Sensitivity (0dB=1V/Pa@1KHz)	-50±3 dB
Impedance	1200 _
Max. S.P.L. (1KHz@1%T.H.D.)	120 dB
Operating Voltage	1 ~10 V DC
Capsule Housing	Φ5x6 mm
Plug	2.5mm mono

For more information visit
www.certestechnologies.com