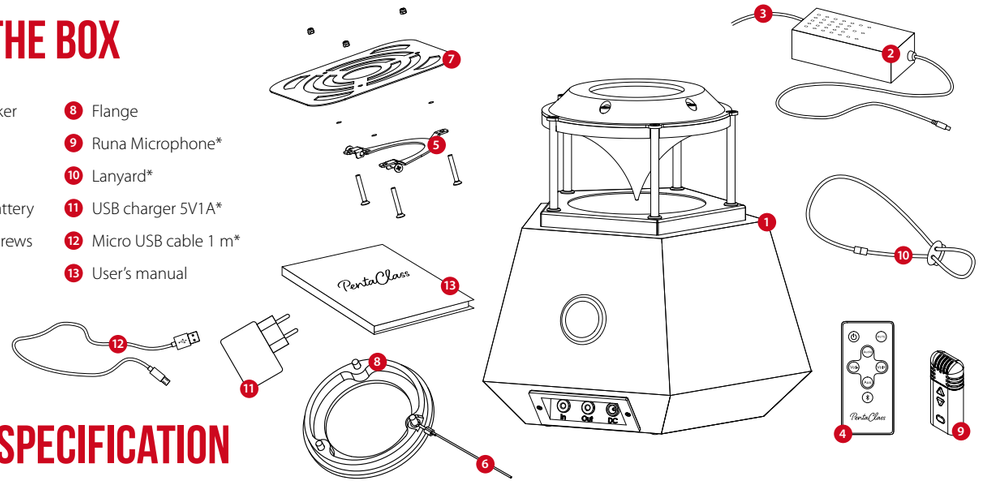
WHAT'S IN THE BOX

1. Certes PentaClass speaker
2. Power supply 19 V 2A
3. Power cord
4. Remote control with battery
5. Fixation bracket with screws
6. Safety wire
7. Plate for false ceiling
8. Flange
9. Runa Microphone*
10. Lanyard*
11. USB charger 5V1A*
12. Micro USB cable 1 m*
13. User's manual

* included with
PentaClass ABM version



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

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 (AB and Runa models)

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 (only in Runa model)

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)

RUNA MICROPHONE SPECIFICATION (only in Runa model)

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



360°

CERTES
Technology enhancing

AUDIO SYSTEM

Certes Technologies
Mukusalas street 41b, Riga, LV-1004, Latvia
E-mail: info@certestechnologies.com
www.certestechnologies.com

CERTES
Technology enhancing

For more information visit
www.certestechnologies.com

PentaClass

OMNIDIRECTIONAL 360° SOUND SYSTEM

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

BLUETOOTH CONNECTION MODEL AB, RUNA
Stream your music from wherever you are in the room.

RUNA MICROPHONE CONNECTION MODEL RUNA
2.4 Ghz Runa microphone connection in Runa version.

VERSATILE USE
Use as portable or installed.

1300 SQ FT COVERAGE
Suitable for room sizes of up to 1300 ft or daisy chain to cover a larger room.

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

LED STATUS INDICATION
A specific light will illuminate on the top panel.

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



Runa

2.4 GHZ WIRELESS PENDANT HD MICROPHONE

CONTROL IN YOUR HANDS
RUNA doubles as a remote control for quick, easy use.





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

EXTERNAL MICROPHONE CONNECTIVITY
Convenient solution for those who prefer wearing a headset mic.



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

FITS IN THE PALM OF YOUR HAND





TWO MICROPHONES FOR SIMULTANEOUS USE
with the PentaClass - Runa W as primary, Runa O as secondary

PENTACLASS MODELS



PENTACLASS 2X RUNA
Bluetooth version with RUNA O, RUNA W and headset microphone



PENTACLASS RUNA
Bluetooth version with RUNA W Microphone



PENTACLASS AB
Bluetooth version without microphone



PENTACLASS A
Analog version without bluetooth and microphone



PENTACLASS CATCHBOX SET
Bluetooth version with RUNA W and wireless throwable microphone Certes Catchbox

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