



RM-TT Architect & Consultant Definition

The solution shall be an intelligent tabletop microphone.

The tabletop microphone system shall be Dante enabled and PoE powered, requiring only one CAT5e or Cat6 cable for both power and data/audio transmission.

The tabletop microphones shall support programmability for several audio pick-up patterns. Audio pick-up patterns shall include omni-directional and a toroid pattern to capture 360 degree around the microphone with toroid reducing sounds from above the microphone. The microphone shall also allow for cardioid, super cardioid, and hyper cardioid pick-up pattern. When selecting any of the cardioid pick-up patterns, up to four independent directions (“channels”) shall be available to define per microphone and all four will be active. A predefined bi-directional cardioid pick-up pattern with two lobes opposite to each other shall be available, with free selection of the direction of that pattern. When selecting several active channels, different mixing options shall be offered, including gain-sharing options and all-mix.

The tabletop solution shall also offer a speaker tracking setting in which the microphone elements that provide the best audio capture are automatically selected and mixed into the audio output of the microphone.

The microphone shall include audio post-processing. This shall include Adaptive Acoustic Echo Cancellation, Noise Reduction, Human Voice Activity Detection, Automatic Gain Control, Automatic mixing of audio signals, and others.

An installation mechanism shall be provided to install microphones in a fixed location on surfaces like tables.

Each tabletop microphone shall provide an audio signal that was only postprocessed using linear algorithms allowing for technology like speech recognition to use the signal without loss of performance.

The product shall provide connectivity for third party control systems, allowing to manage microphone and audio behavior from the room control system.

The Yamaha RM-TT is specified.