

quest[™]
engineering

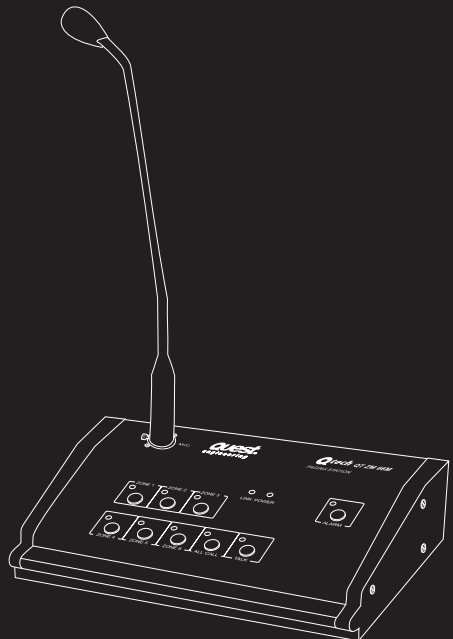
Q-Tech

Commercial Series

QT ZM66M

Paging Station

User Manual



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Safety Precautions

- Be sure to read the instructions in this section carefully before use.
- Make sure you observe the instructions in this manual as to the conventions of safety symbols.
- We also recommend you keep this instruction manual handy for future reference.

Safety Symbol and Message Conventions

Safety symbols described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential risks.



WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.



CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.



WARNING

When Installing the Unit

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut, kink, otherwise damage nor modify the power supply cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.
- Be sure to replace the unit's terminal cover after connection completion. Because high voltage is applied to the speaker terminals, never touch these terminals to avoid electric shock.
- Be sure to ground to the earth terminal to avoid electric shock.

When the Unit is in Use

- Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet and contact your nearest Quest dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
 - If you detect smoke or a strange smell coming from the unit.
 - If water or any metallic object gets into the unit
 - If the unit falls, or the unit case breaks
 - If the power supply cord is damaged (exposure of the core, disconnection, etc.)
 - If it is malfunctioning (no tone sounds.)
- To prevent a fire or electric shock, never open nor remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest Quest dealer.
- Do not place cups, bowls, or other containers of liquid or metallic objects on top of the unit. If they accidentally spill into the unit, this may cause a fire or electric shock.
- Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover, as this may result in fire or electric shock.

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CAUTION

When Installing the Unit

- Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.
- When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.
- When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock. When removing the power cord, be sure to hold its plug to pull.
- Do not block the ventilation slots in the unit's cover. Doing so may cause heat to build up inside the unit and result in fire.
- Avoid installing the unit in humid or dusty locations, in locations exposed to direct sunlight, near heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.

When the Unit is in Use

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Make sure that the volume control is set to minimum position before power is switched on. Loud noise produced at high volume when power is switched on can impair hearing.
- Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- Contact your Quest dealer for cleaning recommendations. If dust is allowed to accumulate in the unit over a long period of time, a fire or damage to the unit may result.
- If dust accumulates on the power supply plug or in the wall AC outlet, a fire may result. Clean it periodically. In addition, insert the plug in the wall outlet securely.
- Switch off the power, and unplug the power supply plug from the AC outlet for safety purposes when cleaning or leaving the unit unused for 10 days or more. Doing otherwise may cause a fire or electric shock.



An all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.

General Description

The QT ZM66M 6 zone paging console is able to page individual zones in addition to making “all call” paging announcements.

Operation

1. Individual Zone selection, or all call.

Keep button depressed while speaking. A chime tone will be activated on pressing zone button and LED will light up.

2. Announcement

After selecting the zone to be paged, keep the button depressed while making the announcement. If other QT ZM66M consoles are being used, this is prioritized as a first in/first served basis.

3. Message 3 Activation.

Message 3 has many useful functions. This message may be repeated, or a single message played continuously. Use of message 3 is made via the alarm button on the front panel of The QT ZM66.

4. Paging Console has priority over all other sources

5. Recorded messages

Three different messages, 60 seconds max each could be recorded. The first and second message are activate by contact play message on QT ZM66 and they go to all zones. The third message could be only activated by microphone base console and it goes only to the pre-selected zone. Messages have priority on all music sources.

6. Maximum of 6 consoles which may be used.

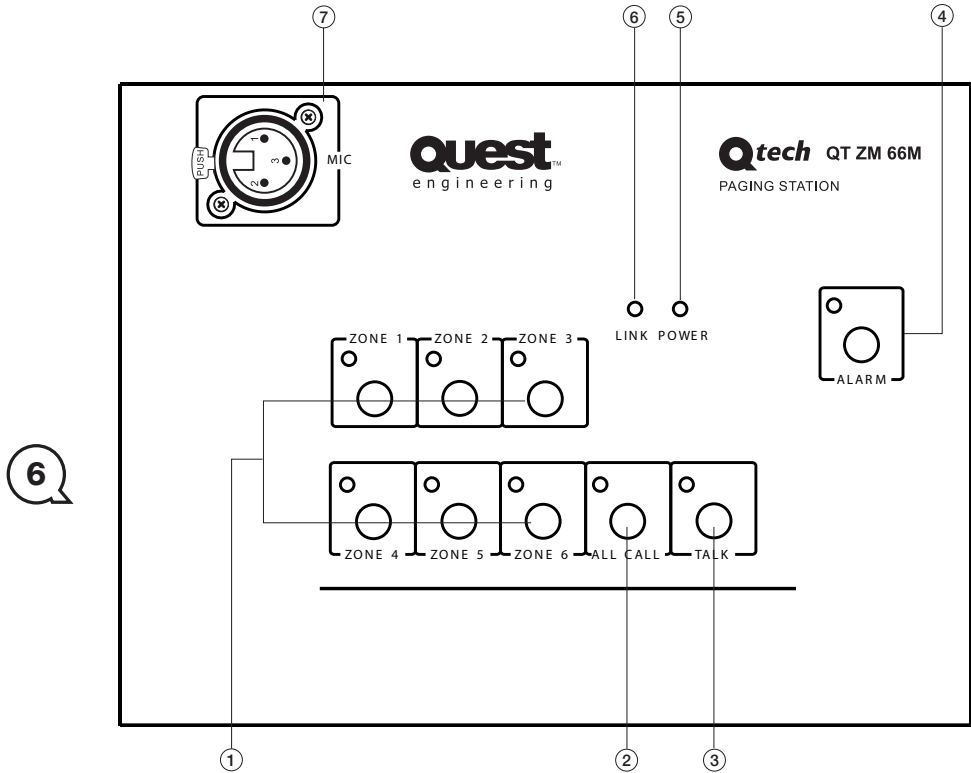


Specifications

Sensitivity	-50 / -2 dB 2, 5 / 500 mV
S/N ratio	>68dB
Frequency response	100/17.000Hz(-3dB)
Phantom power	12V
Bass	±12dB
Treble	±12dB
Chime	2 tone active for contact free in priority and BGM
Normal distortion	>0.1%
Main power supply	24 DC
Dimension (mm)	230X150X56
Weight	0.96KG
Max number of microphone bases	6



Front Panel Layout



1. ZONE(1-6)

6 zone activation switches with LED

2. All Call

Activation switch for all zones with LED selection

3. Talk

Hold down while making announcements. If other consoles are in operation at the same time, the LED will blink. Please wait before making an announcement

4. Alarm

Alarm message activation switch for pre-selected zone. The Alarm button operates message no 3 only. Hold button down for 2 seconds to activate message

5. Power

Power indicator

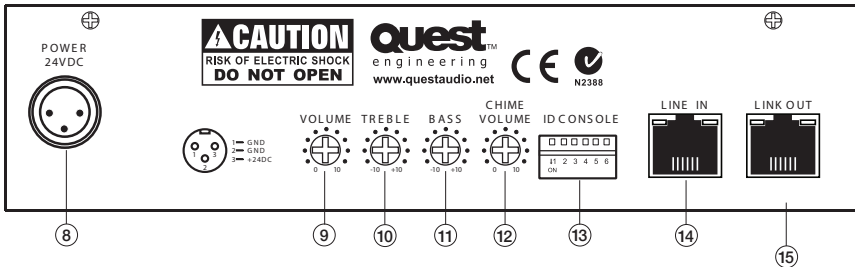
6. Link

Link indicator

7. MIC

Electret microphone

Rear Panel Layout



8. 24V DC Power Supply

24V DC power connection with secure screw for a potential external power transformer. The 24v power supply should be used when the distance between the QT ZM66M and the QT ZM66 exceeds 50m.

When the distance between the QT ZM66 and QT ZM66M is greater than 50m, we must use the 24V DC power input

9. Volume

Volume control output

10. Treble

Adjust treble response. Rotate clockwise to increase treble output and anti clockwise to reduce it

11. Bass

Adjust bass response. Rotate clockwise to increase bass output and anti-clockwise to reduce it

12. Chime

Chime Volume Control

13. ID Console

Dip-switches for microphone base ID (from 1 to 6)

14. Line IN

Rj45 port for connection to QT ZM66M. Two wires are used for 24 Vdc power provided by QT ZM66M, two wires for the data bus 485 and 3 wires for 0dB microphone signal.

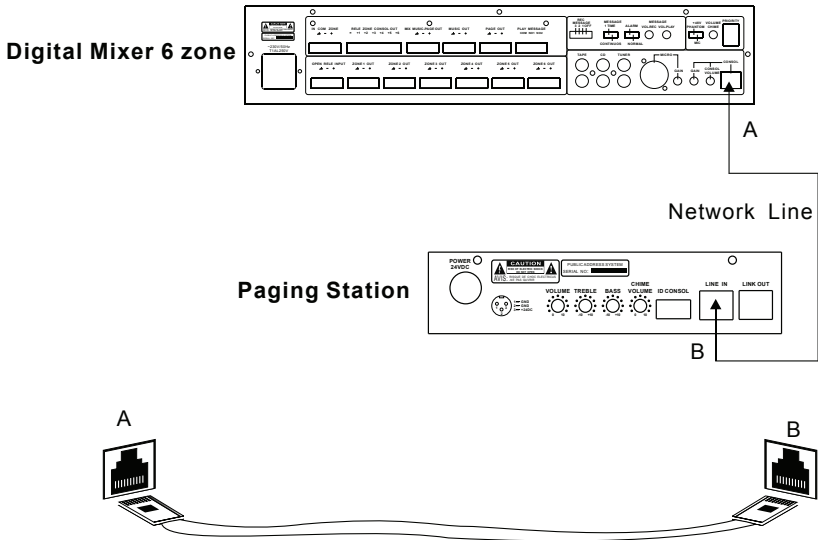
15. Link OUT

Connected to the next QT ZM66M

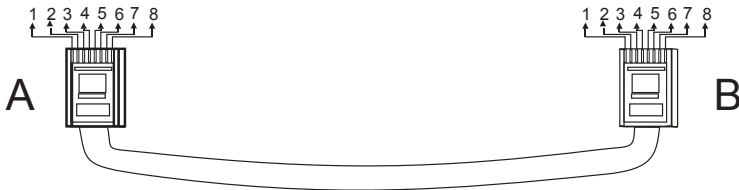
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Connections

Network Connection Line



Net Production Line Method



1. Blue
2. White Blue
3. Brown
4. White Brown
5. Orange
6. White Orange
7. Green
8. White Green

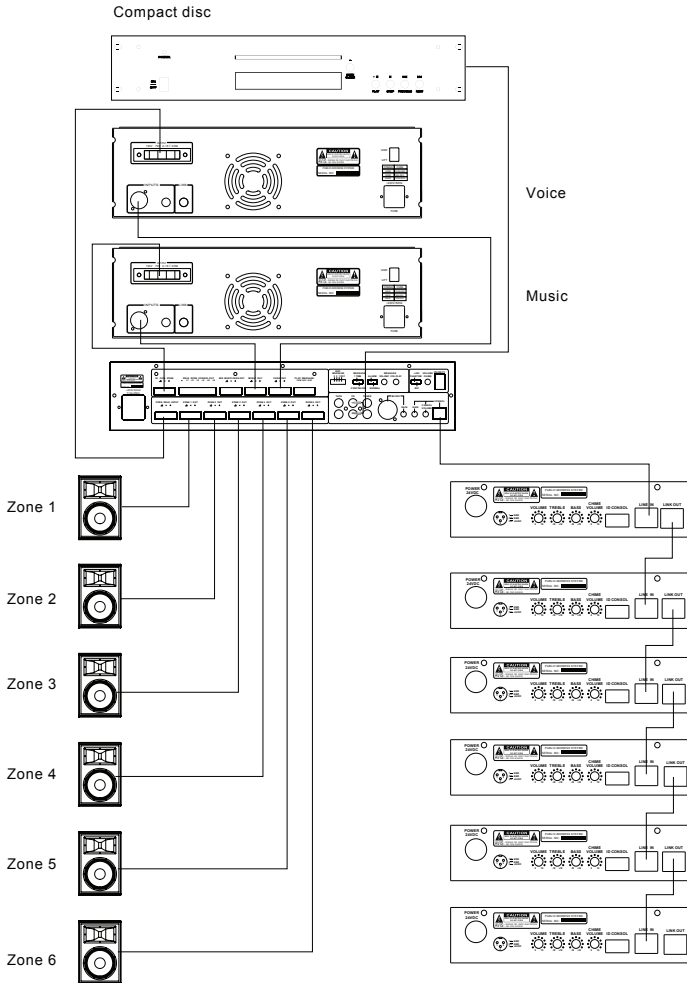
1. Blue
2. White Blue
3. Brown
4. White Brown
5. Orange
6. White Orange
7. Green
8. White Green



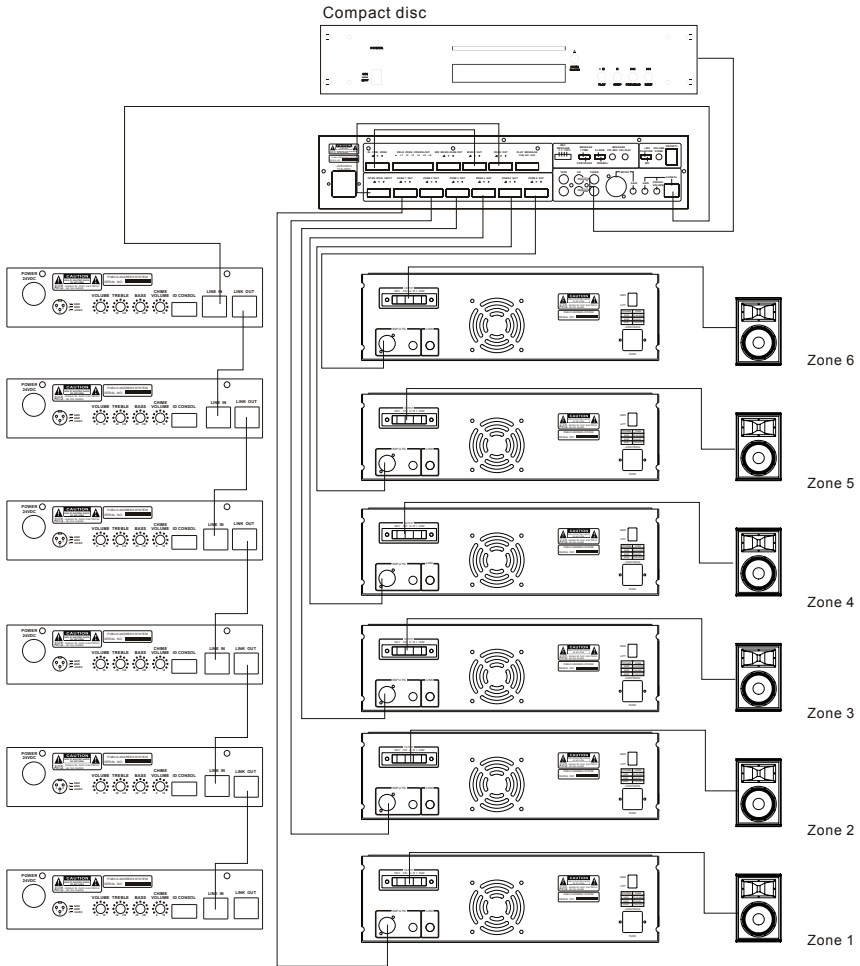
Note: Network lines must adopt the five categories of twisted-pair with double-layer shielding, RJ45 connectors must be used with shielded connector

Applications

1 amplifier for music 1 amplifier for voice for 6 zone



6 amplifier one for each zone



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













Address Set

















ID Console Address Set

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ADDRESS	DEFINITION
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ADDRESS	DEFINITION
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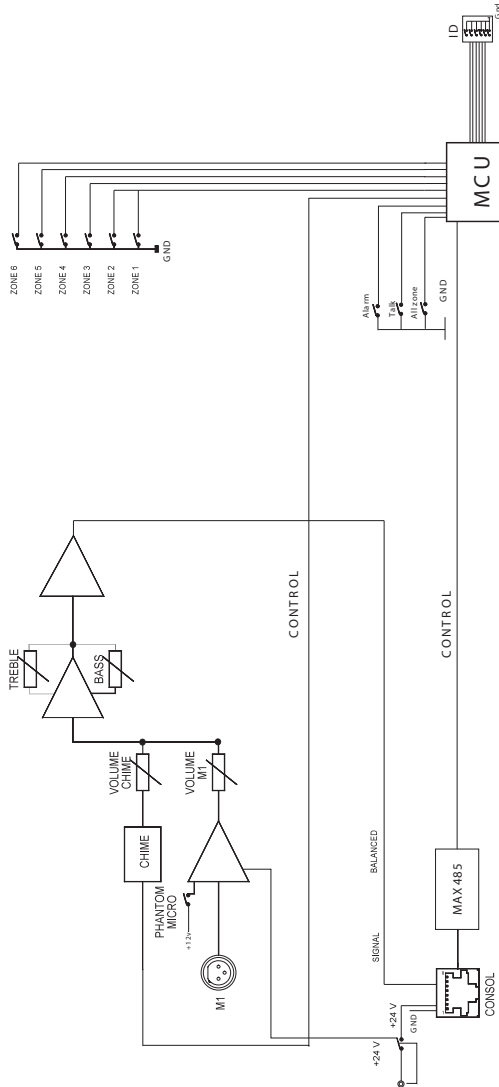
ADDRESS	DEFINITION
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ADDRESS	DEFINITION
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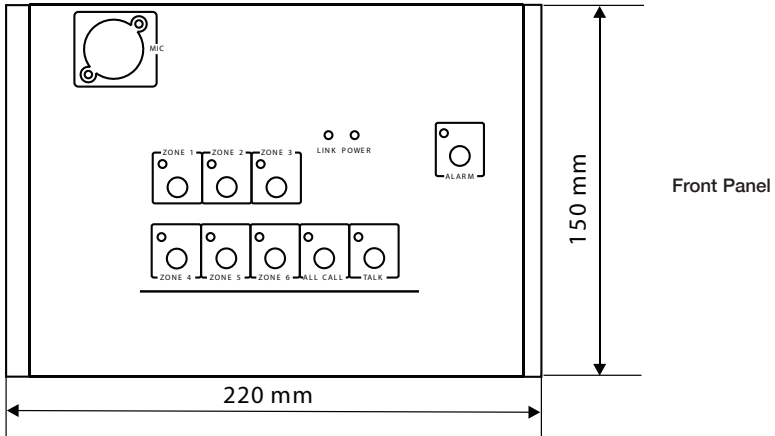
Block Diagram

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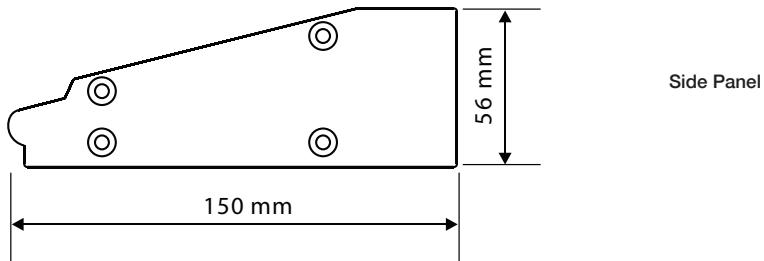
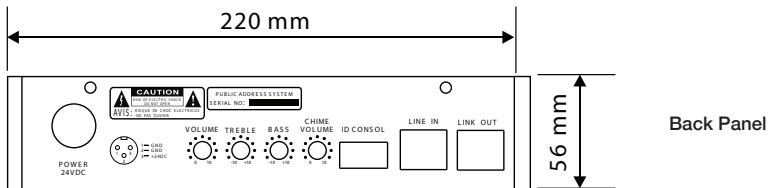


Dimensional Diagram

UNIT: mm



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