



Recommended Live Karaoke Specifications for DBP Clients

A practical small-event system for Bollywood karaoke, live singers, restaurant shows, private events and HD live streaming - with separate audience, singer-monitor and livestream mixes.

1. Recommended System at a Glance

Component	Recommended specification	Qty
Main PA	Mackie Thump12v4 - 12 in, 1400 W peak powered speaker	2
Floor monitor	Alto Professional TX408 - compact 8 in active monitor	1
Digital mixer	Behringer X AIR XR18 - 18-input tablet-controlled mixer	1
Wireless vocals	Phenyx Pro PTU-7000-4H - quad UHF, 4 handhelds	1 set
Mixer network	Dual-band Wi-Fi router with Gigabit Ethernet; private SSID	1
Streaming camera	Mevo Start - HD/1080p live streaming camera	1
Recording media	128 GB microSDXC, U3/V30 recommended	1
Main speaker stands	Heavy-duty PA tripod stands	2
Control device	iPad/tablet for XR18 control + charger/power bank	1

Design goal: two mains serve the audience, the TX408 gives singers a dedicated vocal-heavy monitor mix, and the XR18 provides independent buses for Front of House, stage monitoring and a clean livestream feed.

2. Core Equipment Specifications

Mackie Thump12v4 mains

12-inch powered loudspeaker; 1400 W peak Class-D amplification; 129 dB maximum SPL; 47 Hz-20 kHz (-3 dB). Mackie's Live voicing is intended for speech, karaoke and live shows. Use one Main L and one Main R.

Behringer XR18 digital mixer

18-input tablet-controlled digital mixer with 16 mic preamps, Main L/R and six Aux buses. This allows independent audience, monitor and streaming mixes.

Phenyx Pro PTU-7000-4H

Four handheld UHF wireless microphones with four independent XLR outputs, auto-scan and selectable frequencies. Feed each mic into a separate XR18 channel.

Alto TX408 floor monitor

Compact 8-inch active loudspeaker suitable for stage monitoring. Its job is close-range vocal intelligibility, not room-filling bass.

Mevo Start HD streaming camera

1080p H.264/HEVC streaming camera with 3.5 mm external audio input, USB-C and microSD recording. Feed it from a dedicated XR18 stream bus instead of relying on the camera microphones.

3. Complete Cable & Accessory List

Connection / accessory	Recommended item	Qty
Phenyx receiver -> XR18	3 ft balanced XLR female-to-male cable	4
XR18 Main L/R -> Thump12v4	25 ft balanced XLR cable	2
XR18 Aux 1 -> TX408 monitor	25 ft balanced XLR cable	1
Spare audio cable	25 ft balanced XLR cable	1
Router -> XR18	6-10 ft Cat6 Ethernet patch cable	1
XR18 -> Mevo audio	Stereo line-level camera interface/cable: 2 XR18 Aux outputs -> Mevo 3.5 mm TRS input	1
Mevo recording	128 GB microSDXC; Class 10 minimum, U3/V30 preferred	1
Mevo mounting	Tripod/light stand with compatible 1/4-20 mount	1
Mevo continuous power	USB-C power adapter or power bank + cable	1
Mic batteries	Fresh AA batteries + full spare set for 4 handhelds	16 AA suggested
AC distribution	Grounded power strips + properly rated extension cords	As needed
Cable safety	Gaffer tape / cable ramps for walkways	As needed

Mevo audio caution: do not use a crude Y-cable that shorts two balanced XR18 outputs together. Use a cable/interface specifically designed to accept two mixer line outputs and feed a stereo 3.5 mm camera input, or a compatible USB audio interface. Begin with conservative output levels and verify the Mevo input meter is not clipping.

4. Recommended XR18 Assignment

XR18 path	Use
Inputs 1-4	Phenyx wireless singers 1-4
Inputs 5-6	Host / guest / spare microphones
Inputs 7-16	Future instruments, guest mics or expansion
Inputs 17/18	Stereo karaoke / backing-track source
Main L/R	Audience mix -> two Mackie Thump12v4 speakers
Aux 1	Singer monitor mix -> Alto TX408
Aux 5 + Aux 6	Linked stereo livestream mix -> Mevo external audio input

Monitor mix: emphasize vocals and keep the backing track lower than the audience mix. **Stream mix:** build a separate stereo mix so online viewers hear a balanced combination of singers and backing tracks, independent of room acoustics.

5. Connection Diagram

PHENYX PTU-7000-4H

Mic 1 -- 3 ft XLR --> XR18 CH 1

Mic 2 -- 3 ft XLR --> XR18 CH 2

Mic 3 -- 3 ft XLR --> XR18 CH 3

Mic 4 -- 3 ft XLR --> XR18 CH 4

KARAOKE LAPTOP / PLAYBACK --> XR18 stereo input

BEHRINGER XR18

Main L -- 25 ft XLR --> Mackie Thump12v4 LEFT

Main R -- 25 ft XLR --> Mackie Thump12v4 RIGHT

Aux 1 -- 25 ft XLR --> Alto TX408 FLOOR MONITOR

Aux 5 + 6 -- stereo line interface --> Mevo 3.5 mm AUDIO IN

NETWORK

Tablet)) 5 GHz Wi-Fi)) Dedicated Router -- Cat6 --> XR18

MEVO

Mevo Start --> 128 GB microSDXC local recording + livestream platform

6. Live-Event Setup Checklist

- Place both Thump12v4 mains in front of the singers/microphones and above audience head level.
- Place the TX408 on the floor facing the singers; keep it only as loud as necessary.
- Run Phenyx auto-scan before soundcheck and keep receiver antennas clear of metal obstructions.
- Use a dedicated router SSID for XR18 control. The router does not require Internet access.
- Connect router to XR18 by Ethernet and use 5 GHz Wi-Fi for the control tablet when practical.
- Soundcheck each singer separately: gain first, then high-pass filter/EQ, compression and effects.
- Ring out the floor monitor carefully before guests arrive; keep reverb modest in the monitor.
- Create and test a separate livestream mix. Watch the Mevo input meter and prevent clipping.
- Format and test the 128 GB microSD card before the event and confirm local recording starts.
- Provide continuous USB-C power for long Mevo events.
- Carry spare AA batteries, one spare XLR cable, power adapters, extension cords and gaffer tape.
- Keep drinks away from the XR18, wireless receiver, router and power distribution.

7. Items Commonly Missed

Recommended additions: a sturdy Mevo tripod, continuous USB-C power, spare AA batteries, a spare long XLR cable, surge-protected power distribution, cable tape/ramps, tablet charger or power bank, protective cases/bags, and a simple written channel map for quick setup. For larger dance-heavy events, the next major audio upgrade would normally be a powered subwoofer.

8. DBP / 4FANZ Official Support



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Technical note: Product specifications can change. Confirm current model compatibility, local wireless-frequency rules, connector pinouts and venue power requirements before purchase or installation.

Prepared as a recommended reference configuration for DBP clients; it is not a substitute for venue-specific sound engineering or electrical safety review.