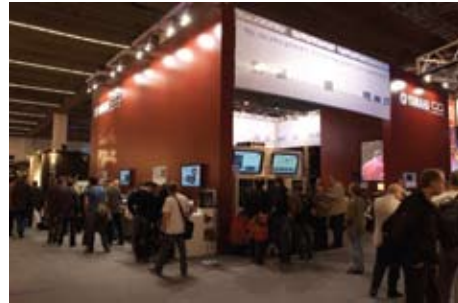




Version 2.20 of the PM5D series mixing consoles now enables the use of two **DSP5D** units in cascade with a PM5D to achieve a flexible large scale mixing system with 144 mono inputs and 24 stereo inputs. The units can be connected using the included Yamaha Cascade cables, or with a networked CAT5 connection using the optional DCU5D. Version 2.20 for PM5D and the matching version 1.20 for DSP5D are available as download on www.yamahaproaudio.com. The update is free of charge.



The Yamaha Commercial Audio stand at **Pro Light & Sound 2008** in Frankfurt, Germany, will be located in hall 8, standnr F50. Apart from the existing line-up of digital mixing consoles, digital mixing engines, touring solutions, amplifiers and installation speakers, new products include the IM series analogue PA mixing consoles, the **POCKETRAK 2G** recorder, Projectphone conferencing systems, and the new MY format MADI interface.



The **Vakbeurs Theatertechniek** exhibition in Rotterdam, the Netherlands, was the scene of an exiting experiment - a gigabit network was layed out in the exhibition hall, connecting 11 stands of distributors and manufacturers of networked audio products such as Auvitran, BSS, Nexo, Roland, QSC, Whirlwind, Yamaha. Not only audio, including a mix of Cobranet and EtherSound, but also multiple video signals and control signals were distributed giving a good impression of an integrated real-life application of network technology in the theater industry.



The **ISE** in Amsterdam, the Netherlands, was the scene of the European launch event of a brand new Yamaha product group called Projectphone. The product line-up includes audio and video components for conference systems using standard analog or IP phone systems, analog audio and USB. One of the most important features of the Projectphone line-up is the unprecedented outstanding sound quality combined with source location technology using advanced DSP. The European launch party at the Amsterdam Muziekgebouw aan het IJ was attended by over 100 industry guests from all European countries.

Projectphone is a range of conferencing system products, the world's finest conferencing system with integrated speaker/microphone arrays. It offers high-grade audio quality for all type of conferencing solutions with versatile connectivity. One of the key advantages is billed as 'smooth two-way talk without interruption or delay'. Projectphone incorporates an adaptive echo canceller to eliminate echoes and reproduces voices with higher clarity. By specifying audio pickup areas from which ambient noises are eliminated (such as ventilation systems and projectors), it is possible to achieve a noise-free meeting environment that allows attendees to concentrate.

As an example of complex technology in user-friendly packages, the **PJP-50R** unit integrates four small-diameter speakers, 16 microphones, a communication controller, and an audio mixer into a single, easy-to-use IP phone conferencing system. In addition to SIP-enabled VoIP communication, it can communicate via analogue phone lines. It also comes with audio inputs and outputs for use as an audio terminal in PC-based web- or videoconferencing systems. Another example, shown below, is the **PJP-25UR**, compact, lightweight, easy to carry USB microphone/speaker unit. By moving its microphone arms to change the pick up range, PJP-25UR adapts to the seating arrangement and web conference participant voices are picked up clearly.





While launching a complete series of digital live consoles in the past 5 years many engineers asked us for a small format analogue console. And of course we listened, and we deliver: meet the **IM8 series** 'super basic' live consoles. Based on the proven Yamaha analogue mixer design known from the PM series, everybody will feel at home with this console immediately. But 'super basic' doesn't mean any compromise to sound quality, reliability or feature set: with over 35 years of experience in building professional analogue consoles Yamaha guarantees an unprecedented audio and build quality with many features normally not found in this price range. To mention a few: one knob compressors with indication LED on all channels, 4 additional stereo inputs, 100mm faders, 8 mute groups, 4-band EQ with mid sweeps, 60mm aux/monitor send faders, USB recording output with Cubase AI4 bundled and an optional redundant power supply. The IM8 series is available in 24, 32, and 40 channel frames. The first delivery to the market is expected in July 2008.

There are so many compelling reasons to record band rehearsals or music lessons for later review that a portable recorder is an essential item. Recording conferences and meetings has become a matter of course too. Naturally, the smaller and lighter that recorder is, while delivering top-class sound quality, the better. Weighing only 49 grams complete with battery, the Yamaha **POCKETRAK 2G** Pocket Recorder is an unbeatable choice.

It's only 13 millimeters thick and will slip unobtrusively into a shirt pocket. But this diminutive, lightweight package contains a large 2 gigabyte memory plus advanced digital audio technology that lets you record and play back with outstanding quality.

In addition to a CD-quality linear PCM recording mode that lets you record up to 3 hours of music, there are a number of MP3 modes that provide significantly longer recording times. The supplied long-lasting rechargeable battery can keep the **POCKETRAK 2G** running for up to 19 hours continuously when recording in MP3 mode. Slide out the built-in USB connector and connect the **POCKETRAK** directly to your computer to transfer files back and forth, and use the bundled **CUBASE AI** digital audio workstation software to edit and enhance your recordings with pro-level control.

If sound is important to you, there's simply no reason not to have a Yamaha **POCKETRAK 2G** Pocket recorder with you at all times.





For more than 30 years Yamaha has been delivering top-quality for professional audio applications. The recent Tn series amplifiers achieved new heights in power, efficiency, sonic quality and low-impedance drive capability. And now the **TXn series** amplifiers bring together several industry-leading Yamaha technologies for the ultimate in power, processing, and networking performance.

Three new high-power (TX6n: 6000W, TX5n: 5000W, TX4n: 4400W) amplifiers not only deliver extraordinary efficiency and stunning sound quality reliably into 2-ohm loads, but also offer sophisticated onboard DSP with a front-panel user interface that minimizes or eliminates the need for external equalizers, delays, and speaker processors. All models feature both analog and direct digital inputs, with automatic failsafe redundancy switching between digital and analog input. The input configuration can be changed as required using optional plug-in Yamaha mini-YGDAI interface cards. With the appropriate I/O cards these advanced amplifiers are fully compatible with CobraNet or EtherSound audio networks as well as a variety of other digital audio formats. The built-in Ethernet port can be connected to a computer running Yamaha's NetworkAmp Manager II software for comprehensive remote control and monitoring of individual amplifiers or groups.

The **ACD1** Amplifier Control Device provides a convenient, reliable means to connect a computer running Yamaha's advanced NetworkAmp Manager II amplifier control and monitoring software to Yamaha Tn, PC1N, XP, XM and XH series power amplifiers. A single unit of ACD1 allows you to remotely control and monitor up to 40 amplifiers, saving time consuming trips to and from amp racks, while providing you with necessary amplifier status information so you know how your amplifiers are doing every second of your show.



August 25th 2007 saw 1.2 million people turn the city centre of Essen, in Germany's Ruhr region, into a giant party as the **Love Parade** filled the city's streets with a procession of floats, all with loud PA systems playing the latest dance music.

As well as the main parade, the event features a wide variety of associated parties and events, which this year saw performances by artists including high profile acts such as the Blue Man Group, Moby, WestBam, Kosheen and Sonos.

Forming the finale to the celebrations was a large, open air stage in the centre of the city's main square, which had audio being broadcast 360 degrees around it. This provided major challenges for audio company Crystal Sound, who needed to provide a powerful but very well directed system in the square, which would ensure both that a strict noise limit of 93dB at the nearest properties was observed and also that there were no unpleasant echoes bouncing off the walls of the building that surround the square.

The sound design was developed by Frank Vogelsgesang, who chose a Yamaha DME64N digital mix engine as the ideal audio routing matrix for the loudspeakers, with PM5D-RH consoles for both front of house and monitor mixes - the FOH console upgraded with an additional DSP5D for the live acts.

The PA system comprised 96 d&b mid-highs and 80 d&b subs were distributed for the PA, the subs operated using a hypercardioid setup. This transformed the spherical characteristic of the bass into a heart-shaped pattern, resulting in the bass being distributed uniformly in the audience area and minimised under the stage.

For such a complex event, it seems almost unbelievable that the technical crew was given a mere 90 minutes in which to configure and soundcheck the system. Fortunately, the pre-programmability, versatility and reliability of the Yamaha equipment proved ideal for such a challenge, the technical rehearsal deadline was met and the event went ahead with no problems.

Three Optocore DD32 units connected the main system with the press podium and an outside broadcast (OB) vehicle. The FOH mix, along with a mix of ambient microphones relaying crowd atmosphere, was then made available by the OB vehicle to all media and broadcasting positions. Many media representatives commented favourably about the service that had been provided, which meant broadcast organisations were spared the task of cable routing.

Another important part of the event was including the infrastructure and logistics for a potential evacuation scenario. Four small JBL Vertec line arrays were also installed to facilitate this, in the event of evacuation being necessary an announcement via a microphone and pre-produced fire brigade CD would be broadcast using a Yamaha O1V96. A separate unit provided power to the emergency sound system throughout the entire event.



“See What’s Driving the Future” was the motto of the 62nd **International Motor Show** (IAA) at the Exhibition Centre in Frankfurt am Main. The show ran between 13 and 23 September 2007, with the largest automobile manufacturers in the world presenting their latest models and many technical innovations. Around one million visitors came to view the spectacle beneath the gigantic, 257-meter exhibition centre tower.

The audio specialists in particular were faced with some highly intractable tasks. The public address systems had to be gigantic, powerful and clear sounding, yet also completely invisible—even if they were composed of up to 100 loudspeaker systems. Only the best of them were up to this challenging task and were able to win the hotly contested tender to organise the automobile concerts.



The German market leaders, DaimlerChrysler (now Daimler AG), VW and BMW (with Rolls Royce and MINI), were of course represented with impressive productions. The contracts for the installation of the systems went to the events systems providers Atelier Markgraph (DaimlerChrysler), Neumann & Müller (DaimlerChrysler), Profi Musik (VW), Tonart AG (BMW) and Heiko-Müller-music-&-light-design-GmbH (MINI and Rolls Royce).

The audio specialists from the afore-mentioned companies pursued vastly different solutions in designing the systems and in particular for the device connections, yet when it came to system management, they all relied on Yamaha’s modern and proven DME technology. Roughly two dozen Yamaha DME64N digital engines and numerous other models were put to work for the three largest German auto-makers as flexible control centres and as reliable providers of computational power for signal processing.

More and more professional audio applications are adopting the **MADI** digital audio interface because of its reliability and longdistance capability. The reliability and simplified installation and maintenance provided over long distances makes MADI an ideal choice for multi-room production facilities, outdoor broadcast venues, large live sound and recording applications, and more.

With a single Yamaha MY16-MD64 card you can add 16 channels of MADI input and output connectivity to a range of Yamaha pro audio devices that accept mini-YGDAI expansion cards. Simply add one, two, or three MY16-EX expansion cards to the core MY16-MD64 card to increase the MADI channel capacity to 32, 48, or 64 channels.

A single MADI link provides unidirectional transmission, so the MY16-MD64 card is provided with independent input and output connectors in both coaxial and optical formats. Full bidirectional transfer of up to 64 channels can be achieved with just two thin cables. Coaxial cables can be used for runs of up to 100 meters, while optical connections allow audio data to be reliably transmitted for up to 2,000 meters.

EtherSound is the digital audio and control transfer protocol of choice for many modern live sound applications. Now with a single Yamaha MY16-ES64 card you can add 16 channels of bidirectional EtherSound connectivity to a range of Yamaha professional audio devices that accept mini-YGDAI expansion cards. Simply add one, two, or three MY16-EX expansion cards to the core MY16-ES64 card to increase the EtherSound channel capacity to 32, 48, or 64 channels.

As EtherSound is bidirectional, MY16-ES64 and MY16-EX cards work on both ends of the system. You could, for example, equip your Yamaha digital mixer with an MY16-ES64 card and up to 3 MY16-EX cards to provide the required EtherSound input and output capability, and install complementary MY16-ES64 and MY16-EX cards into on-stage Yamaha TXn-series power amplifiers for a clean Ethernet-only connection from console to power amplifiers. For input you could use Yamaha AD8HR remotely-controlable head amplifiers connected via a Yamaha NAI48-ES EtherSound Network Audio Interface.





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Project:
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Project:
Razorlight

Project:
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Project:
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Project:
New Music Awards Tour

To join the Yamaha Digital Live Mixing engineers reference list, email your picture to proaudio@yamaha.nl