

## PRESS INFORMATION

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# CJ E&M Tooniverse Studios upgrade clocking system with MUTEC clock solutions featuring iClock and REF 10 master clocks

Berlin, October 2018. CJ E&M Tooniverse is the leading anime television channel in South Korea operating its own studio facilities consisting of four dubbing rooms and two mixing suites. The clocking of these rooms has recently been upgraded with both iClock and REF 10 master clocks by MUTEC.

### Key takeaways of this press release:

- iClock high-precision clock synthesizers with additional REF 10 master clocks have been installed in four rooms
- The upgrade dramatically improved the sound quality of the Avid MTRX main converters
- Tooniverse Studios are the latest high-profile South Korean customer with MUTEC clocking distributed by JD Solution, joining a roster of clients such as CSMusic& and Sonic Korea Mastering



Recording Studio 1 at CJ E&M Tooniverse Studios

MUTEC's Korean distributor, JD Solution, installed four iClock reference clock synthesizers and four REF 10 reference master clocks providing ultra-low phase noise 10 MHz signals to the iClocks. Due to MUTEC's proprietary frequency generation concept the iClock offers unrivaled flexibility for synchronization of different devices to one house clock. Apart from highest accuracy of audio and video synchronization, as well as the efficient removal of clock drift (jitter), it was however the improvement in audio quality that sealed the deal to go with MUTEC solutions at Tooniverse Studios.

Sung Joo Lee, Audio Team Manager at CJ E&M Tooniverse Studios, now considers the audio interface and its clocking to be the most important pieces of equipment in the studio design:

**"In the past, we used word clock equipment for other pro audio companies. Once we installed the MUTEC REF 10 & iClock we were immediately impressed by the clear sound. Before I'd always been unhappy with the mid & bass frequency range, but after connecting the REF10 & iClock all of this was resolved. The clarity of the sound, the wider stereo image and the low-end resolution make the Avid MTRX main converter sound so much better."**

Sung Joo Lee, CJ E&M Tooniverse Studios

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Kwang Min Park, Team Manager at JD Solution, adds: "We are proud to have successfully completed yet another large-scale installation of MUTEC clocking solutions in Korea. Reference master clocks by MUTEC have become renowned for their ultra-low phase noise performance and exceptional sound quality at broadcast, mastering, and mixing studios alike."

JD Solution has been providing professional media solutions and consultancy in broadcast and pro audio installations for major networks and studios since 2010. Since 2016, JD Solution has been MUTEC's exclusive distribution partner for the Republic of Korea. Other brands in JD Solution's portfolio currently are Avid, GML, Avalon Design, Phoenix Audio, Peluso, Eventide, PMC, BAE, Sennheiser, ADL, and DMSD.



The REF 10 and iClock installed in Mixing Studio 2



Recording Room 2

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## About MUTEC

MUTEC is a leading manufacturer of high-quality A/V master clocks, audio re-clockers, interfaces, format converters, and signal distributors for professional and audiophile consumer audio applications. Focusing on improving digital audio reproduction and transmission processes, MUTEC's 1G-Clock Technology raises the bar for ultra-low jitter clock generation industry-wide to an unparalleled level of performance. Based in Berlin, Germany, MUTEC is dedicated to setting new standards in sound quality, clock generation and digital audio signal processing, enabling customers to realize their visions of the perfect sound in their environments.

MUTEC products are installed in leading-edge broadcast and television stations, well-respected recording and mastering studios as well as renowned musical theatres, opera houses and universities all over the world. The new line of audiophile consumer products takes our experience from the broadcast and pro audio world into the listening room at home to provide an unprecedented music experience.