

# TECHNICAL BULLETIN

Ikegami

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**Date:** 7/15/10  
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**Page:** 1 of 3

**To:** Distribution

**Product:** HDK-79EC, CCU-890, TA-79HD

**Symptom:** 24p Issues – Revised from bulletin dated 6/2/10

**Purpose:**

- 1) Reinforce instructions for genlock when operating the HDK-79EC in 1080/24p, 1080/24sf, or 1080/60i with 2-3 pulldown.
- 2) Correct problem with CCU-890 not accepting SMPTE 318 compliant blackburst with 10 field identification (BB + 10 Field ID).
- 3) Correct intermittent problem with camera head to CCU phase lock in 1080p23.98sf and 1080p23.98 formats, and triax configuration.

**Instruction:**

- 1) When operating the HDK-79EC in any of the 24p formats it is very important to provide the CCU-890 with a 10 field ID reference signal for frame accuracy. Please see the attached revised diagrams showing the different genlock wiring configurations which are recommended.

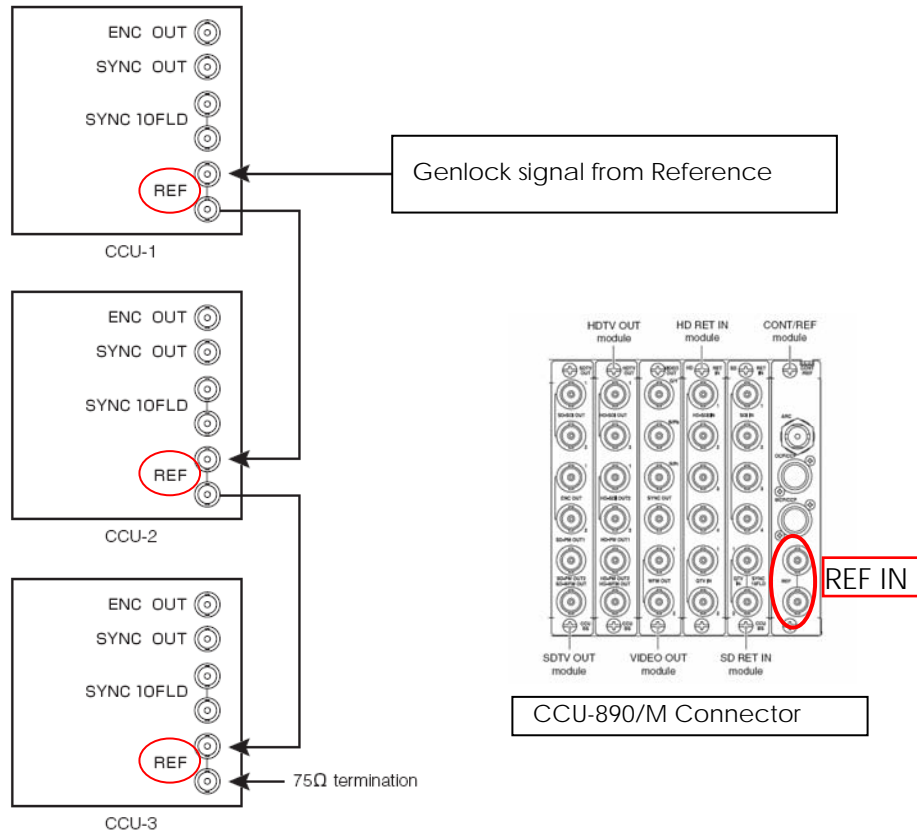
Please confirm proper genlock via the diagnostic display on the PM outputs. The genlock status including 10 Field ID (when camera head is operating in 24p) is indicated on the diagnostics page.

- 2) CCU software must be version STR-5136V23.00 or higher, and FPGA data for CCU Pulse board must be STR-5075V08. Please contact Ikegami field engineering if software needs to be updated.

- 3) FPGA data for TA Modem module (in TA-79HD) must be STR-4623V02 for modules with printed circuit version PD38R9E or PE4616E. If printed circuit is version PE5433E with software STR-4861V00, no update is needed. Please contact Ikegami field engineering if software needs to be updated.

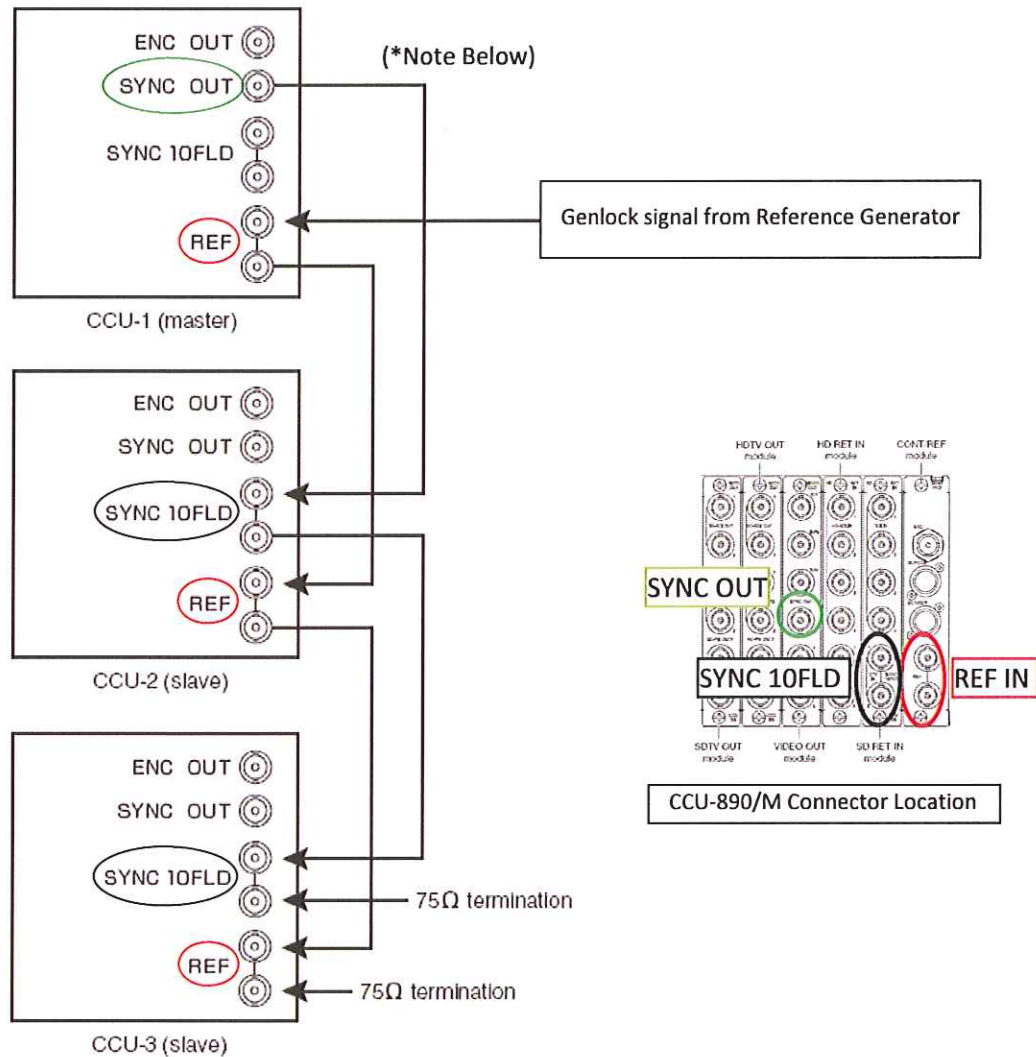
# CCU-890 Genlock system

## 1) Recommended Configuration



REF IN	Supported CCU OUTPUT Format
BB	1080i59.94, 720p59.94
BB with 10 Field ID (SMPTE 318M compliant)	1080i59.94, 720p59.94, 1080i59.94 (2-3 Pull Down), 1080p23.98, 1080p23.98sf
1080i59.94 (Tri-Sync)	1080i59.94
720p59.94 (Tri-Sync)	720p59.94

## 2, Alternate Configuration



REF IN	SYNC 10FLD IN	CCU Supported Output Format
BB		1080i59.94, 720p59.94
1080i59.94 (Tri-Sync)		1080i59.94
720p59.94 (Tri-Sync)		720p59.94
BB or 1080p23.98 (Tri-Sync) or 1080p23.98sf (Tri-Sync)	1080 Tri-Sync (With 2-3 ID)	1080p23.98sf, 1080i59.94 (2-3Pull Down) 1080p23.98

**\*Note:**

- 1, Set CCU for Tri-Sync output with [SYNC OUT SEL] menu at [VIDEO OUT CONT] section of CCU MENU.  
It can be 1080i or 1080p Tri-Sync.
- 2, Also set 2-3 ID [ON] at [SYNC 2-3ID ADD] menu at [VIDEO OUT CONT] section.
- 3, Diagnostic Information will not indicate 10 Field ID [LOCKED] at Master CCU, but it is okay to use.