

**A. FILM EMULSION CODES..... A-1**

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**REVISION HISTORY**

| <u>REVISION</u> | <u>DESCRIPTION</u>   | <u>DATE</u>              |
|-----------------|--|--------------------------|
| 1.1.0           | Added KX   | Jan 6, 99                |
| 1.1.1           | Added FN72 (8572)  | Feb 2, 99                |
| 1.1.2           | Added FN52 (8552), FN62 (8562)   | May 21, 99               |
| 1.2.0           | Added Support for new E letters for Kodak<br>Added EA (Eastman 5285)   | Nov 25, 99               |
| 1.2.1           | Added FN82 (8582)  | Jul 17, 00               |
| 1.2.2           | Added EG (Eastman 5284), EE (Eastman 5263)   | Mar 9, 01                |
| 1.3             | Added EH (Eastman 5218)  | Nov 25, 02               |
| 1.3.1           | Corrected Kodak table to include EV (Eastman 5242)   | Dec 16, 02               |
| 1.4             | Added Fuji 8540 VELVIA color reversal<br>Corrected Fuji 91 to REALA 500D, remove Fuji 91   | Apr 2, 03                |
| 1.5             | Added EB (Eastman 5229/7229)   | Jan 5, 04                |
| 1.5.1           | Added EM (Eastman 5212/7212), EL (Eastman 5217/7217)   | Jan 27, 04               |
| 1.6             | Added EQ (Eastman 5205/7205), EC (Eastman 7265)<br>Added ED (Eastman 7266)   | Nov 19, 04<br>Nov 19, 04 |
| 1.7             | Added FN (Fuji 8573/8673 Eterna 500 and 8583/8683 Eterna 400)<br>Added EI (Eastman 7299)   | Jun 30, 05               |
| 1.7.1           | Added EK (Eastman 5201/7201 Vision2 50D)<br>(available in June 30/05 Firmware)   | Nov 2, 05                |
| 1.7.2           | Added FN (Fuji 8553/8653 Eterna 250 and 8563/8663 Eterna 250D)<br>(available in June 30/05 Firmware)   | Apr 5, 06                |
| 1.8             | Added support for Kodak stocks: EJ (Vision3 500T - 5219/7219)<br>Added support for Fuji stocks: FN (Fuji ETERNA Vivid160 - 8543,8643)<br>FI (ETERNA CI Intermediate - 8503,4503),<br>FD (ETERNA RDI Digital Intermediate (8511,4511)<br>Added support for ORWO (MFG 00) stocks: OU (Barcode 29 - UN54 - 100 ASA)<br>OU (Barcode 37 - N74 - 400 ASA) –not supported in all products | Dec 12, 07               |

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If you are seeing a question mark in place of the film manufacturer or film type when reading and displaying KeyCode, the reason is as follows. The film barcode has a human readable component which shows the film manufacturer as a letter ('O', 'A', 'E', 'K' or 'F' for ORWO, Agfa, Eastman, Kodak and Fuji) and the film type as a letter (ex. 'J' for Kodak 5296 type film). The actual bar-code contains only numbers and so the manufacturer and type must be encoded as a numeric code. For clarity and the convenience of the user, Evertz has chosen to display these codes exactly as shown in the human readable portion of the film. We translate the codes into the alphabetic characters as established by each film manufacturer.

From time to time new film types with new codes are introduced by the film manufacturers. When these new films are read or displayed by the Film Footage Encoder, Afterburner or KeyLog TRACKER™, they may show as a question mark ("?") in place of either the film manufacturer or film type or both. The rest of the barcode is read and handled correctly. The actual codes are internally used by the software, and the KeyCode foot and frames are completely accurate. Only the display of the codes is affected.

Evertz takes great pains to ensure that the code translation tables are up to date and accurate and we endeavor to obtain the information from the film manufacturers in advance of the release of new film products. We regularly update the Emulsion code tables and provide updates on our website (<http://www.evertz.com/ftp.html>). We suggest you check this site regularly to make sure you have the most up to date emulsion codes.

The film manufacturers and film types currently supported are shown on the following charts.

| Manufacturer |           |        | Emulsion |      | Film Type       | Added      |
|--------------|-----------|--------|----------|------|-----------------|------------|
|              | Code      | Letter | Code     | Char |                 |            |
| ORWO         | 00 (35mm) | O      | 29       | U    | UN 54 (100 ASA) | May 15, 06 |
|              | 10 (16mm) |        | 37       | U    | N 74 (400 ASA)  | May 15, 06 |

**Table A-1: ORWO Emulsion Codes(not supported in all products)**

| Manufacturer |           |        | Emulsion |      | Film Type | Added |
|--------------|-----------|--------|----------|------|-----------|-------|
|              | Code      | Letter | Code     | Char |           |       |
| Agfa         | 01 (35mm) | A      | 20       | N    | XT 100    |       |
|              | 11 (16mm) |        | 24       | M    | XTR 250   |       |
|              |           |        | 83       | F    | XT 320    |       |
|              |           |        | 84       | S    | XTS 400   |       |

**Table A-2: Agfa Emulsion Codes**

| Manufacturer |                                     |                      | Emulsion   |      | Film Type                         | Added      |
|--------------|-------------------------------------|----------------------|------------|------|-----------------------------------|------------|
|              | Code                                | Letter               | Code       | Char |                                   |            |
| Kodak        | 02 (35mm)<br>12 (16mm)<br>22 (65mm) | K                    | 00         | P    | 5600 (obsolete)                   | Mar 22, 95 |
|              |                                     |                      | 14         | X    | SO-214 SFX 200T                   | Jan 6, 99  |
|              |                                     |                      | 20         | Y    | 5620 Prime Time (obsolete)        |            |
|              |                                     |                      | 22         | E    | 5222/7222                         |            |
|              |                                     |                      | 24         | L    | 5224 (obsolete)                   |            |
|              |                                     |                      | 31         | H    | 5231/7231                         |            |
|              |                                     |                      | 34         | D    | 5234/7234                         |            |
|              |                                     |                      | 43         | A    | 5243/7243 (obsolete)              |            |
|              |                                     |                      | 44         | V    | 5244/7244 (obsolete)              |            |
|              |                                     |                      | 45         | K    | 5245/7245                         |            |
|              |                                     |                      | 46         | I    | 5246/7246 Vision 250D             | Feb 28, 97 |
|              |                                     |                      | 47         | B    | 5247/7247 (obsolete)              |            |
|              |                                     |                      | 48         | M    | 5248/7248                         |            |
|              |                                     |                      | 49         | O    | 5249 (obsolete)                   |            |
|              |                                     |                      | 72         | S    | 5272/7272                         |            |
|              |                                     |                      | 74         | Z    | 5274/7274 Vision 200T             | Feb 28, 97 |
|              |                                     |                      | 77         | Q    | 5277/7277                         | Feb 9, 96  |
|              |                                     |                      | 79         | U    | 5279/7279                         |            |
|              |                                     |                      | 87         | W    | 5287/7287 (obsolete)              | May 13, 94 |
|              |                                     |                      | 89         | R    | 5289 Vision 800T                  | Aug 10, 98 |
| 92           | N                                   | 7292 (obsolete)      |            |      |                                   |            |
| 93           | L                                   | 5293/7293            | Jul 15, 92 |      |                                   |            |
| 94           | G                                   | 5294/7294 (obsolete) |            |      |                                   |            |
| 95           | F                                   | 5295 (obsolete)      |            |      |                                   |            |
| 96           | J                                   | 5296/7296 (obsolete) |            |      |                                   |            |
| 97           | C                                   | 5297/7297 (obsolete) |            |      |                                   |            |
| 98           | T                                   | 5298/7298 (obsolete) | Nov 23, 11 |      |                                   |            |
| Eastman      | 02 (35mm)<br>12 (16mm)<br>22 (65mm) | E                    | 01         | K    | 5201/7201 Vision2 50D             | Nov 2, 05  |
|              |                                     |                      | 05         | Q    | 5205/7205 Vision2 250D            | Nov 19, 04 |
|              |                                     |                      | 12         | M    | 5212/7212 Vision2 100T            | Jan 27, 04 |
|              |                                     |                      | 17         | L    | 5217/7217 Vision2 200T            | Jan 27, 04 |
|              |                                     |                      | 18         | H    | 5218/7218 Vision2 500T            | Nov 25, 02 |
|              |                                     |                      | 19         | J    | 5219/7219 Vision3 500T            | Dec 12, 07 |
|              |                                     |                      | 29         | B    | 5229/7229 Vision2 Expression 500T | Jan 5, 04  |
|              |                                     |                      | 42         | V    | 5242/7242 Vision Intermediate     | Nov 25, 02 |
|              |                                     |                      | 63         | E    | 5263/7263 Vision 500T             | Mar 9, 01  |
|              |                                     |                      | 65         | C    | 7265                              | Nov 19, 04 |
|              |                                     |                      | 66         | D    | 7266                              | Nov 19, 04 |
|              |                                     |                      | 84         | G    | 5284/7284 Vision Expression 500T  | Mar 9, 01  |
|              |                                     |                      | 85         | A    | 5285 100D                         | Nov 25, 99 |
| 99           | I                                   | 7299                 | Jun 30, 05 |      |                                   |            |

Table A-3: Kodak Emulsion Codes

| Manufacturer |           |        | Emulsion                         |            | Film Type                               | Added      |
|--------------|-----------|--------|----------------------------------|------------|---|------------|
|              | Code      | Letter | Code                             | Char       |   |            |
| Fuji         | 03 (35mm) | F      | 01                               | I          | F-CI (8501, 8601, 8701) (obsolete 95)   |            |
|              | 13 (16mm) |        | 02                               | I          | F-CI (8502, 8602, 8702) (obsolete 07)   | May 4, 95  |
|              | 23 (65mm) |        | 03                               | I          | ETERNA CI Intermediate (8503,4503)      | Dec 12, 07 |
|              |           |        | 10                               | N          | F-64 (obsolete 05/95)                   |            |
|              |           |        | 11                               | I          | ETERNA RDI Digital Inter (8511,4511)    | Dec 12, 07 |
|              |           |        | 13                               | I          | F-CI (obsolete )                        |            |
|              |           |        | 14                               | N          | F-500 (obsolete )                       |            |
|              |           |        | 20                               | N          | F-64D (obsolete 05/95)                  |            |
|              |           |        | 21                               | N          | F-64D (8521, 8621, 8721) (obsolete 98)  | May 4, 95  |
|              |           |        | 22                               | N          | F-64D (8522, 8622)                      | Jun 24, 98 |
|              |           |        | 30                               | N          | F-125 (obsolete 05/95)                  |            |
|              |           |        | 31                               | N          | F-125 (8531, 8631, 8731) (obsolete 98)  | May 4, 95  |
|              |           |        | 32                               | N          | F-125 (8532, 8632) (obsolete 07)        | Jun 24, 98 |
|              |           |        | 40                               | R          | VELVIA color reversal (8540)            | Apr 2, 03  |
|              |           |        | 43                               | N          | ETERNA Vivid160 (8543,8643)             | Dec 12, 07 |
|              |           |        | 50                               | N          | F-250 (obsolete 05/95)                  |            |
|              |           |        | 51                               | N          | F-250 (8551, 8651, 8751) (obsolete 99)  | May 4, 95  |
|              |           |        | 52                               | N          | F-250 (8552, 8652,) (obsolete 07)       | Apr 15, 99 |
|              |           |        | 53                               | N          | ETERNA 250 (8553, 8653)                 | Apr 5, 06  |
|              |           |        | 60                               | N          | F-250D (obsolete 05/95)                 |            |
|              |           |        | 61                               | N          | F-250D (8561, 8661, 8761) (obsolete 99) | May 4, 95  |
|              |           |        | 62                               | N          | F-250D (8562, 8662) (obsolete 07)       | Apr 15, 99 |
|              |           |        | 63                               | N          | ETERNA 250D (8563, 8663)                | Apr 5, 06  |
|              |           |        | 70                               | N          | F-500 (8570, 8670, 8770) (obsolete 95)  |            |
|              |           |        | 71                               | N          | F-500 (8571, 8671) (obsolete 99)        | Jun 12, 96 |
|              |           |        | 72                               | N          | F-500 (8572, 8672) (obsolete 07)        | Apr 15, 99 |
|              | 73        | N      | ETERNA 500 (8573, 8673)          | Jun 30, 05 |   |            |
|              | 82        | N      | F-400 (8582, 8682) (obsolete 07) | July 17,00 |   |            |
|              | 83        | N      | ETERNA 400 (8583, 8683)          | Jun 30, 05 |   |            |
|              | 92        | N      | REALA 500D (8592, 8692)          | Mar 09,01  |   |            |

**Table A-4: Fuji Emulsion Codes**

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