

between MACINTOSH COMPUTER & IBM MONITOR. Support 6 kinds different signal modes & resolutions.

| MONITOR          | RESOLUTION      | MODE 1 | MODE 2 | MODE 3 | MODE 4 | MODE 5 | MODE 6 |
|------------------|-----------------|--------|--------|--------|--------|--------|--------|
| 12" RGB          | 512 x 384       | 1345   | 13456  | 1347   | 1346   | 13467  | 134    |
| 13" RGB          | 640 x 480 60Hz  | 145    | 1456   | 147    | 146    | 1467   | 14     |
| PORTBIT          | 640 x 480       | 2345   | 23456  | 2347   | 2346   | 23467  | 234    |
| VIDEOGA          | 640 x 480 60 Hz | 235    | 2356   | 237    | 236    | 2367   | 23     |
| 15" TLT          |                 | 245    | 2456   | 247    | 246    | 2467   | 24     |
| 16" COLOR        | 832 x 624       | 135    | 1356   | 137    | 136    | 1367   | 13     |
| 19" COLOR        | 1024 x 768      | 125    | 1256   | 127    | 126    | 1267   | 12     |
| 21" COLOR        | 1152 x 870      | 12345  | 123456 | 12347  | 12346  | 123467 | 1234   |
| 2 PAGE MONO      | 1152 x 870      | 345    | 3456   | 347    | 346    | 3467   | 34     |
| NTSC             |                 | 1245   | 12456  | 1247   | 1246   | 12467  | 124    |
| NTSC-PAL         |                 | 1235   | 12356  | 1237   | 1236   | 12367  | 123    |
| HRES (12.1)      |                 | 145    | 1456   | 147    | 146    | 1467   | 14     |
| MULTIPLE SCAN 14 |                 | 14569  | 145689 | 14789  | 14689  | 146789 | 1469   |
| MULTIPLE SCAN 16 |                 | 1458   | 14588  | 1478   | 1468   | 14678  | 148    |
| MULTIPLE SCAN 21 |                 | 1459   | 14589  | 1479   | 1469   | 14679  | 149    |

| MODE 1 | mean: | SW1 | SW2 | SW3 | SW4 | SW5 | SW6 | SW7 | SW8 | SW9 | SW10 |
|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1345   |       | ON  | OFF | ON  | ON  | ON  | OFF | OFF | OFF | OFF | OFF  |

|                              |                                                                              |
|------------------------------|------------------------------------------------------------------------------|
| MODE 1 is COMPOSITE SYNC (1) | SYNC signal (DB-15M pin 3) connected to HD-15F pin 13                        |
| MODE 2 is COMPOSITE SYNC (2) | DB-15M pin 3 & 15 conn. HD-15F pin 13                                        |
| MODE 3 is SYNC ON V          | DB-15M pin 12 conn. to HD-15F pin 14                                         |
| MODE 4 is SYNC ON H          | DB-15M pin 15 conn. to HD-15F pin 13                                         |
| MODE 5 is SEPARATE SYNC      | DB-15M pin 12 conn. to HD-15F pin 14<br>DB-15M pin 15 conn. to HD-15F pin 13 |
| MODE 6 is SYNC ON GREEN      | SYNC on GREEN                                                                |

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| MODEL    | RESOLUTION | MODE 1 | MODE 2 | MODE 3 | MODE 4 | MODE 5 | MODE 6 |
|----------|------------|--------|--------|--------|--------|--------|--------|
| 13"      | 640 x 480  | 14     | 145    | 16     | 15     | 156    | 1      |
| 16"      | 832 x 624  | 24     | 245    | 26     | 25     | 256    | 2      |
| 19"      | 1024 x 768 | 34     | 345    | 36     | 35     | 356    | 3      |
| 21"      | 1152 x 870 | 1234   | 12345  | 1236   | 1235   | 12356  | 123    |
| NTSC-PAL |            | 234    | 2345   | 236    | 235    | 2356   | 23     |
| NTSC     |            | 134    | 1345   | 136    | 135    | 1356   | 13     |
| 12" RGB  | 512 x 384  | 124    | 1245   | 126    | 125    | 1256   | 12     |

| MODE 1 | mean: | SW1 | SW2 | SW3 | SW4 | SW5 | SW6 |
|--------|-------|-----|-----|-----|-----|-----|-----|
| 14     |       | ON  | OFF | OFF | ON  | OFF | OFF |

|                              |                                                                              |
|------------------------------|------------------------------------------------------------------------------|
| MODE 1 is COMPOSITE SYNC (1) | SYNC signal (DB-15M pin 3) connected to DB-15F pin 13                        |
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| MODE 3 is SYNC ON V          | DB-15M pin 12 conn. to HD-15F pin 14                                         |
| MODE 4 is SYNC ON H          | DB-15M pin 15 conn. to HD-15F pin 13                                         |
| MODE 5 is SEPARATE SYNC      | DB-15M pin 12 conn. to HD-15F pin 14<br>DB-15M pin 15 conn. to HD-15F pin 13 |
| MODE 6 is SYNC ON GREEN      | SYNC on GREEN                                                                |

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| MONITOR          | RESOLUTION      | MODE 1 | MODE 2 | MODE 3 | MODE 4 | MODE 5 | MODE 6 |
|------------------|-----------------|--------|--------|--------|--------|--------|--------|
| 12" RGB          | 512 x 384       | 1345   | 13456  | 1347   | 1346   | 13467  | 134    |
| 13" RGB          | 640 x 480 60Hz  | 145    | 1456   | 147    | 146    | 1467   | 14     |
| PORTBIT          | 640 x 480       | 2345   | 23456  | 2347   | 2346   | 23467  | 234    |
| VIDEOGA          | 640 x 480 60 Hz | 235    | 2356   | 237    | 236    | 2367   | 23     |
| 15" TLT          |                 | 245    | 2456   | 247    | 246    | 2467   | 24     |
| 16" COLOR        | 832 x 624       | 135    | 1356   | 137    | 136    | 1367   | 13     |
| 19" COLOR        | 1024 x 768      | 125    | 1256   | 127    | 126    | 1267   | 12     |
| 21" COLOR        | 1152 x 870      | 12345  | 123456 | 12347  | 12346  | 123467 | 1234   |
| 2 PAGE MONO      | 1152 x 870      | 345    | 3456   | 347    | 346    | 3467   | 34     |
| NTSC             |                 | 1245   | 12456  | 1247   | 1246   | 12467  | 124    |
| NTSC-PAL         |                 | 1235   | 12356  | 1237   | 1236   | 12367  | 123    |
| HRES (12.1)      |                 | 145    | 1456   | 147    | 146    | 1467   | 14     |
| MULTIPLE SCAN 14 |                 | 14569  | 145689 | 14789  | 14689  | 146789 | 1469   |
| MULTIPLE SCAN 16 |                 | 1458   | 14588  | 1478   | 1468   | 14678  | 148    |
| MULTIPLE SCAN 21 |                 | 1459   | 14589  | 1479   | 1469   | 14679  | 149    |

| MODE 1 | mean: | SW1 | SW2 | SW3 | SW4 | SW5 | SW6 | SW7 | SW8 | SW9 | SW10 |
|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1345   |       | ON  | OFF | ON  | ON  | ON  | OFF | OFF | OFF | OFF | OFF  |

|                              |                                                                              |
|------------------------------|------------------------------------------------------------------------------|
| MODE 1 is COMPOSITE SYNC (1) | SYNC signal (DB-15M pin 3) connected to DB-15F pin 13                        |
| MODE 2 is COMPOSITE SYNC (2) | DB-15M pin 3 & 15 conn. DB-15F pin 13                                        |
| MODE 3 is SYNC ON V          | DB-15M pin 12 conn. to DB-15F pin 14                                         |
| MODE 4 is SYNC ON H          | DB-15M pin 15 conn. to DB-15F pin 13                                         |
| MODE 5 is SEPARATE SYNC      | DB-15M pin 12 conn. to DB-15F pin 14<br>DB-15M pin 15 conn. to DB-15F pin 13 |
| MODE 6 is SYNC ON GREEN      | SYNC on GREEN                                                                |

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|----------|------------|--------|--------|--------|--------|--------|--------|
| 13"      | 640 x 480  | 14     | 145    | 16     | 15     | 156    | 1      |
| 16"      | 832 x 624  | 24     | 245    | 26     | 25     | 256    | 2      |
| 19"      | 1024 x 768 | 34     | 345    | 36     | 35     | 356    | 3      |
| 21"      | 1152 x 870 | 1234   | 12345  | 1236   | 1235   | 12356  | 123    |
| NTSC-PAL |            | 234    | 2345   | 236    | 235    | 2356   | 23     |
| NTSC     |            | 134    | 1345   | 136    | 135    | 1356   | 13     |
| 12" RGB  | 512 x 384  | 124    | 1245   | 126    | 125    | 1256   | 12     |

| MODE 1 | mean: | SW1 | SW2 | SW3 | SW4 | SW5 | SW6 |
|--------|-------|-----|-----|-----|-----|-----|-----|
| 14     |       | ON  | OFF | OFF | ON  | OFF | OFF |

|                              |                                                                              |
|------------------------------|------------------------------------------------------------------------------|
| MODE 1 is COMPOSITE SYNC (1) | SYNC signal (DB-15M pin 3) connected to DB-15F pin 13                        |
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| MODE 3 is SYNC ON V          | DB-15M pin 12 conn. to DB-15F pin 14                                         |
| MODE 4 is SYNC ON H          | DB-15M pin 15 conn. to DB-15F pin 13                                         |
| MODE 5 is SEPARATE SYNC      | DB-15M pin 12 conn. to DB-15F pin 14<br>DB-15M pin 15 conn. to DB-15F pin 13 |
| MODE 6 is SYNC ON GREEN      | SYNC on GREEN                                                                |

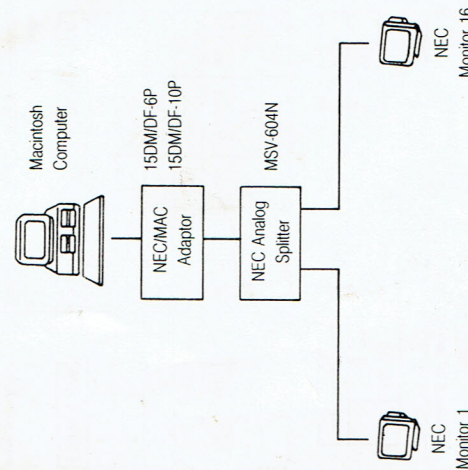
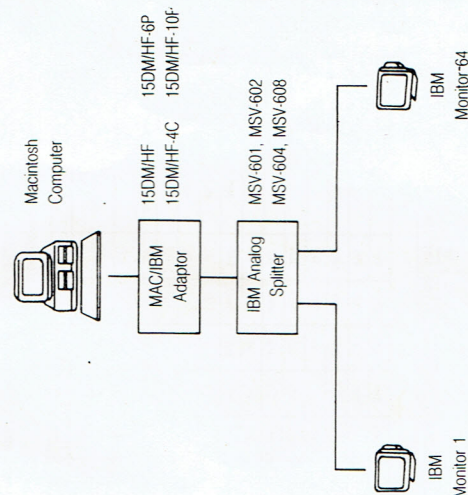
# MAC/MULTI-SYNC ADAPTOR: 15DM/DF-10P(M)

DB-15Male/DB-15Female. Mold type, with 10 pos Dip switch adjusting the signal between MACINTOSH COMPUTER & MULTI-SYNC MONITOR. Support different MACINTOSH MODES & resolutions.

| MONITOR  | FREQUENCY | SWITCH POSITION |
|----------|-----------|-----------------|
| RGB 21"  | 100MHZ    | 1234            |
| NTSC     | 12.3MHZ   | 123             |
| RGB 12"  | 15.7MHZ   | 124             |
| RGB 13"  | 57.3MHZ   | 12              |
| RGB 15"  | 57.3MHZ   | 13              |
| RGB 16"  | 57.3MHZ   | 169             |
| RGB 19"  | 80MHZ     | 1810            |
| VGA      | 25.2MHZ   | 157             |
| PAL      | 14.8MHZ   | 15678910        |
| NTSC/ALT | 12.3MHZ   | 157910          |
| PAL/ALT  | 14.8MHZ   | 178910          |

| SWITCH POS | means | SW1 | SW2 | SW3 | SW4 | SW5 | SW6 | SW7 | SW8 | SW9 | SW10 |
|------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1234       |       | ON  | ON  | ON  | ON  | OFF | OFF | OFF | OFF | OFF | OFF  |

## APPLICATION



## USER'S MANUAL

- ☐ MAC/IBM ADAPTOR:  
15DM/HF-10p
- ☐ MAC/IBM ADAPTOR:  
15DM/HF-6p
- ☐ NEC/MAC ADAPTOR:  
15DM/DF-10p
- ☐ NEC/MAC ADAPTOR:  
15DM/DF-6p
- ☐ MAC/MULTI-SYNC ADAPTOR:  
15DM/DF-10p(M)

We are a very professional manufacturer on MAC/NEC/IBM system. And the rapidly developing electronics and computer market offers vast opportunities. Your further special requirements demand