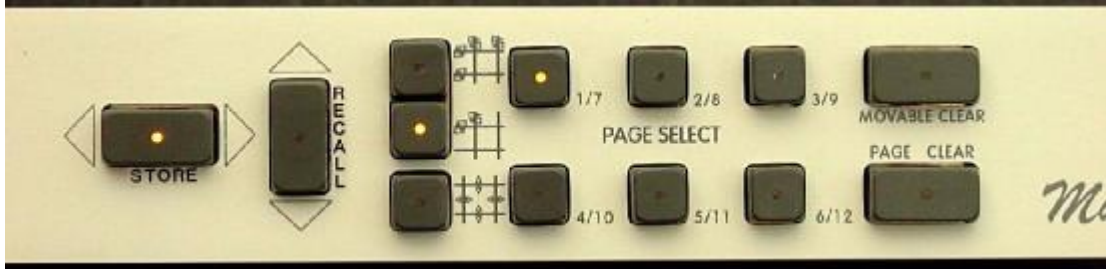


Murraypro CAGE-2K

Are your pictures

“2K” compliant ?



Murraypro are proud to announce their brand new CAGE-2K. Specifically designed to provide Broadcast and Corporate TV Professionals with the very latest in on-screen precision cursors, the low cost design sports a multi-page pre-programmed internal graticule library for superimposition on CRT or LCD TV monitors.

16x9, 14x9, 12x9 & 4x3 “Shoot to Protect” and reference graticules.

The elegant simplicity and intuitive ease of operation that has always been a hallmark of Murraypro CAGEs are retained, whilst the new TV aspect ratios and “Shoot to Protect” formulae are fully supported with a range of precision graticules. Peruse our web site at www.murraypro.com or separate data sheet for full details of our current cursors.

“Graphics Safe” and “Action Safe” areas

Great care has been taken to ensure that the graticules presented are pixel accurate, and at the centre of any applicable tolerance. The CAGE-2K’s 16x9 graticules conform accurately with the UK Terrestrial Broadcasters’ Agreed Specification, now formally submitted for ITU Ratification, whilst 4x3 specific graticules conform with existing British Standard BS5550 but, in accordance with current operational practice, are also presented with rectangular corners!

EASY to USE

The Murraypro CAGEs are extremely easy to use, as the control keys do precisely what they indicate! There are NO obscure dual function switches with the CAGE-2K graticule generator. With seamless automatic operation within both 625 and 525 formats, CAGE-2K provides a wealth of vital on-screen utilities that greatly assist the creative Design process.

FINGER TIP ACCURACY

Conforming unconditionally with the curvature of any screen, and tracking the most severe scan distortion of any monitor, CAGE-2K’s super accurate graticules banish forever the flawed concept of drawing on the tube face with ink or tape! Front panel, light-touch, momentary contact LED illuminated keys control and indicate the status of the CAGE controls under operational lighting.



Scan distortion is no problem here



The title or description of each graticule is stated at the top of the screen, so that there can be no doubt as to the purpose and suitability of the selected format. In general, **Graphics Safe** and **Action Safe** are presented on separate pages, reducing clutter and preventing confusion. Cognisance is taken, with graticule computation, of the differing active line lengths between the analogue and purely digital environments.

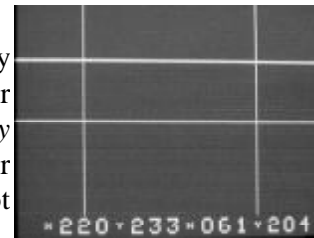
MIX 'n MATCH + MEMORY for MOVABLE CURSORS

The **CAGE-2K** has two completely independent movable cursor modes. The first mode produces a rectangle defined and positioned anywhere on the screen using the front panel rotary encoder, whilst the second is always symmetric about picture centre. In both modes, the position of X and Y movable cursors are independent, with their extended limbs forming a "noughts and crosses" grid as a valuable composition aid.



The 2K's no wind up!

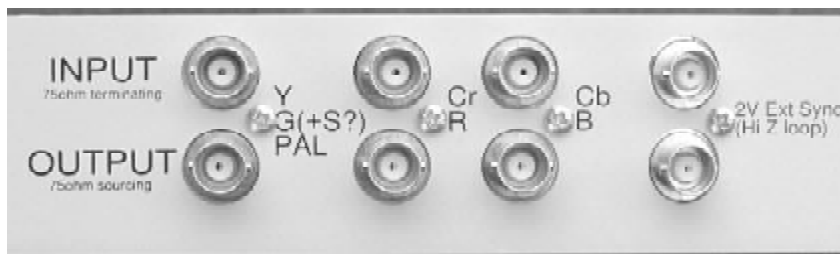
Either of the variable cursors may be combined on screen with any of the fixed pages, whilst a dedicated front panel rotary encoder ensures that each movable cursor is positioned *to pixel accuracy* with great ease. The X/Y pixel co-ordinates of each movable cursor are shown in the bottom left corner of the screen, enabling any spot in the frame to be accurately, and repeatably, located and defined.



The settings of up to 6 **CAGE-2K** movable cursor displays may be instantly stored in Memory, together with their numeric co-ordinates, using a simple two key operation. Use of *non-volatile* RAM ensures secure storage/recovery of these cursors for many years to come.

CONFIGUREABLE-FLEXIBILITY

The **CAGE-2K** is normally supplied set for component/encoded operation; however, internal jumpers permit easy re-configuring for Composite, Component, RGB&S or R(G+S)B modes. A compact 1U rack mount case only **130mm deep** enables the **CAGE-2K** to be located **face up** in many installations, thereby eliminating remote control costs at a stroke.



Caption
Area
Generating
Equipment

CAGE-2K: SPECIFICATION

Positional accuracy	0.15% error max	Channel freq response	±0.1dB - 10MHz
Pixels/TV line	702 or 720	Graticule amplitude	200mV nominal
Jitter	Imperceptible	No of pages of fixed graticule	12 each 625 & 525
Clock lock time	0.25 sec	No of positionable rectangle	2
Channel differential gain	±0.1%	No of pages of movable storage	6 each 625 & 525
Channel differential phase	±0.1°	Maximum Power	5VA
Insertion gain	±0.1dB	Case size	482 x 44.5 x 120mm
Channel matching	±0.1dB Channel	CE approval	conforms '81-1, 82-1
Differential insertion delay	10nS		conforms LVD

The CAGE-2K has been designed and is manufactured in the United Kingdom by MURRAYPRO ELECTRONICS

The figures given in this specification are typical and for guidance only. E & OE.

(C) Murraypro May 2000