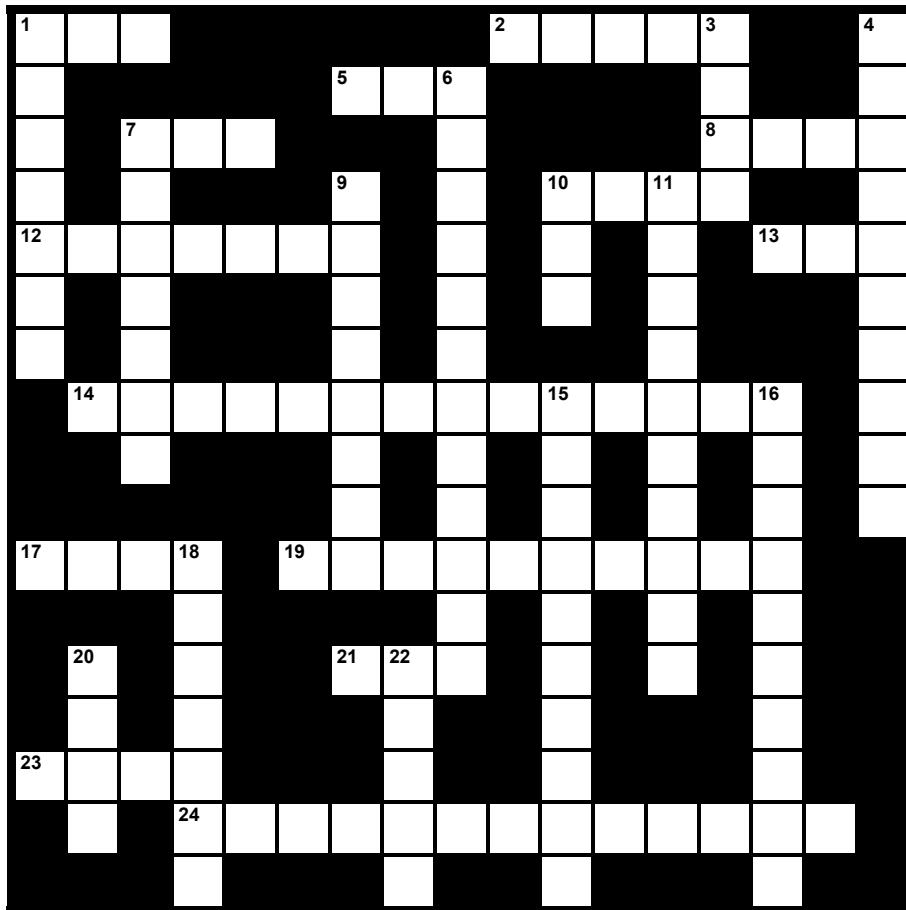


**2003-12-14\_Audio\_Video\_17x17**  
**B.B. Huria**



**Across**

1 A vacuum tube in which a hot cathode emits a beam of electrons that pass through a high voltage anode and are focused or deflected before hitting a phosphorescent screen. (3)

2 The smallest

discrete component of an image or picture on a CRT screen (usually a coloured dot). (5)

5 A digital display that uses liquid crystal cells that change reflectivity in an applied electric field. (3)

7 Digital audio

format stored in binary form on a small cassette. (3)

8 Video standard primarily broadcast in the United States and Japan which produces 525 lines of video per frame, at a rate of 30 frames per second. (4)

10 DAT stands for digital audio XXXX. (4)

12 Mechanical device consisting of a light balanced arm that carries the cartridge. (7)

13 A device for displaying input signals as letters on a screen; usually has a keyboard. (3)

**14** Also called a pixel. (7,7)

**17** A digital processing technique that increases fidelity on audio CDs. (4)

**19** HDTV stands for High XXXXXXXX X Television. (10)

**21** European television standard developed in Germany which broadcasts 625 lines per frame, at a rate of 25 frames per second. (3)

**23** A unit of power equal to 1 joule per second; the power dissipated by a current of 1 ampere flowing across a resistance of 1 ohm. (4)

**24** The amount of increase in signal power or voltage or current expressed as the ratio of output to input. (13)

**Down**

**1** LCD stands for liquid XXXXXXX display. (7)

**3** A conductor for transmitting electrical or optical signals or electric power. (4)

**4** A multi-electrode valve which controls the flow of electrons in a vacuum from electrode to electrode. (6,4)

**6**  
XXXXXXX  
XXXXX  
Amplification is a method of amplifying a signal whereby the output signal is a function of the difference between two input signals. (12)

**7** XXXXXX  
Loudspeaker uses conventional cone and dome drive elements exclusively. (7)

**9** The strength of a electrical current measured in amperes. (8)

**10** Name for the set of minimum technical standards for movie soundtracks derived from Tomlinson Holman's eXperiment. (3)

**11** Front XXXXXXXXX X Television forms an image by projecting a picture from in front of a screen. (10)

**15** Ratio of a loudspeaker's acoustical output to a given electrical input. (10)

**16** A semiconductor device used in electronic circuit. Common uses include signal amplification and voltage rectification. (10)

**18** DAT stands for XXXXXX audio tape. (7)

**20** XXXX  
Projection  
Television forms an image by projecting a picture from behind a screen. (4)

**22** DAT stands for digital XXXXX tape. (5)