

# DIGIFLAME COMPACT



## Flame Photometer for Industrial and Clinical Applications Model DV-704

**DUAL CHANNEL AUTOMATIC  
FLAME ANALYZER**  
for the simultaneous determinations of Sodium (Na) Potassium (K) and Lithium (Li) option Calcium (CA), with built-in 1:100 peristaltic diluter and data printer



- Same instrument can be used for industrial as well as clinical application.
- Pre-set and free programs. Signal integration methods with or without internal standard.
- Digital displays of final results in concentration units.
- Dot printer.
- Automatic dilution directly from sample to flame.
- Simultaneous determination of Na, K and Li. Option filter Ca
- Automatic curve correction.
- Automatic instrument calibration and zero.
- Automatic Flame Ignition.
- Automatic filter selection.
- Positive samples sequence identification with STAT possibility.
- Safety device: valve and controls stop gas exit in case of power failure and air flow interruption.
- Fuel gas: LPG (Propane + Butane).
- Support gas: compressed air.
- Supplied with:
  - Membrane air compressor,
  - Moisture condenser to connect to the air compressor
  - 4 glass cup for samples
  - Gas and drain tubes
  - Power cord.
- Instruction and service manual.
- Power requirements: 220 V, 50 Hz. or 110V50/60 Hz.

### TECHNICAL SPECIFICATIONS

Sample volume	:	50µl	Readout	:	999ppm
Accuracy	:	< 1%	Carry over	:	< 1%
Fuel gas	:	LPG (Propane + Butane)			
Support gas	:	compressed air 14l/min.			
Safety device	:	Gas stopped in case of power failure and air flow interruption.			

**OPTION:** Automatic sampler for 30 samples. Standardizes and zeroes the instrument automatically

All illustrations and specifications contained in this folder are based on the latest information available at the time of printing. NT Laboratory reserves the right to make changes to materials, equipment and models, and to discontinue models at any time without notice.

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## Flame Photometer DIGIFLAME COMPACT DV-704 TECHNICAL DATA

### OPTICAL SYSTEM

MODEL DV 704 , THREE MEASURING CHANNELS, NA, K & LI  
MODEL DV 704/4F, FOUR MEASURING CHANNELS, NA, K, LI & CA  
NARROW BAND FILTERS, 589, 671, 766, 620 NM  
FLAME

### SOURCES: DATA MANAGER SECURITY

MICROPROCESSOR  
INTERNAL VALVE STOPS GAS EXIT WHEN AIR PUMP IS OFF.  
AIR PUMP IS AUTOMATICALLY ARRESTED IN CASE OF LACK OF FLAME.

### DILUTOR PRINTER

RATE 1 TO 100  
INK PRINTER 20 COLUMNS

### ELECTRICAL REQUIREMENT GAS

220V 50HZ / 110V 50/60HZ  
LPG (PROPANE + BUTANE)

### GAS ADJUSTMENT CONSTANT

TWO PRESSURE VALVES, WITH ADJUSTING KNOB, GUARANTEE A  
PRESSURE OF AIR AND GAS.

### LIMITS OF DETECTION LINEARITY

NA  $\leq 0.2$ PPM / K  $\leq 0.2$ PPM / LI  $\leq 0.25$ PPM / CA < 50PPM  
FOR NA, K & LI BETTER THAN 1%  
OF STANDARDIZATION VALUE WITH LINEARIZATION  
FACTOR INTEGRATED

### SENSITIVITY CONFORMITY

NA  $\leq 0.2$ PPM / K  $\leq 0.2$ PPM / LI  $\leq 0.25$ PPM / CA < 50PPM  
IEC 61010-L ELECTROMAGNETIC COMPATIBILITY 89/336/EEC- CE MARKING

Item	MOD	Volume mm l/w/h	Weight Kg	Qty	Total box	Total Weight
1	DV 704	700x420x500	30	1	1	Kg. 35

### ORDERS CODES

DV 704 AUTOMATIC FLAME ANALYZER DIGIFLAME COMPACT for (Na ,K,Li )  
DV 704 /4F AUTOMATIC FLAME ANALYZER Industrial DIGIFLAME 4F (Na ,K,Li Ca)  
DV 712 AUTOMATIC SAMPLER 30  
DV -700-2 ACCESSORY KIT FOR DV-704-710 for Industrial application  
DV -700-3 ACCESSORY KIT FOR DV-704-710 for Clinical application

### ACCESSORY KIT FOR CLINICAL APPLICATION DV-700-3

Gas cylinder pressure valve

- 1 btl 500 ml bottles of Li working solution (Li+=15 mEq/l) Code DV631
- 1 btl 100 ml standard solution for Na K serum samples Na=140 mEq/l; K=5.0 mEq/l) Code DV626
- 1 btl 100 ml standard solution for Na K urine samples (Na=100 mEq/l; K=100 mEq/l) Code DV627
- 1 btl 500 ml working solution (K=4 mEq/l) Code DV628
- 1 btl 100 ml concentrated Li working solution (Li+:1500mEq/l) Code DV639
- 1 btl 500 ml standard solution (Li=0 mEq/l) Code DV630
- 1 btl 100 ml standard solution (Li=3 mEq/l) Code DV633
- 1 btl 100 ml cleaning solution Code DV650

### ACCESSORY KIT FOR INDUSTRIAL APPLICATION DV -700-2

Gas cylinder reducing valve

- 1 btl 500 ml Li working solution (Li+=15 mEq/l) Code DV631
- 1 btl 100 ml concentrated Li working solution Li+:1500mEq/l Code DV639
- 1 btl 100 ml standard solution Na 200ppm - K 200ppm. Code DV603
- 1 btl 100 ml standard solution Na 500ppm - K 500ppm. Code DV602
- 1 btl 100 ml standard solution Na 1000ppm - K 1000ppm Code DV601
- 1 btl 100 ml cleaning solution Code DV650

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