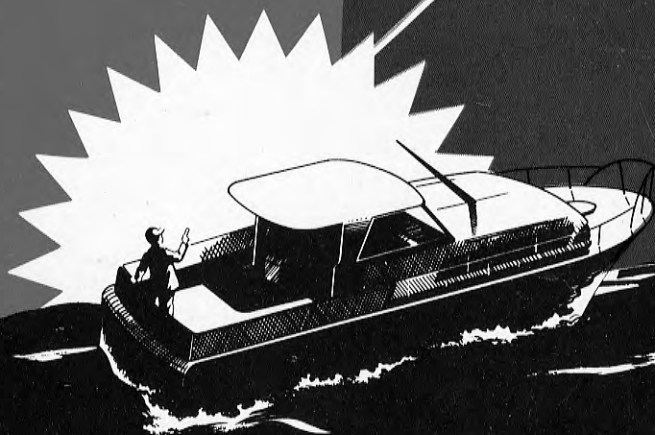


C. J. HENDRY COMPANY
139 TOWNSEND ST., SAN FRANCISCO 7, CALIF.

**U. S. COAST GUARD
APPROVED DISTRESS
SIGNALING EQUIPMENT**

CATALOG NO. 101



**INTERNATIONAL
FLARE SIGNAL DIVISION**



HARVELL-KILGORE CORP.

SALES OFFICE & PLANT
TOONE, TENNESSEE

INTERNATIONAL

The most COMPLETE line of U.S.
COAST GUARD APPROVED DISTRESS
SIGNALING EQUIPMENT for ...

SHIPS LIFEBOATS LIFERAFTS

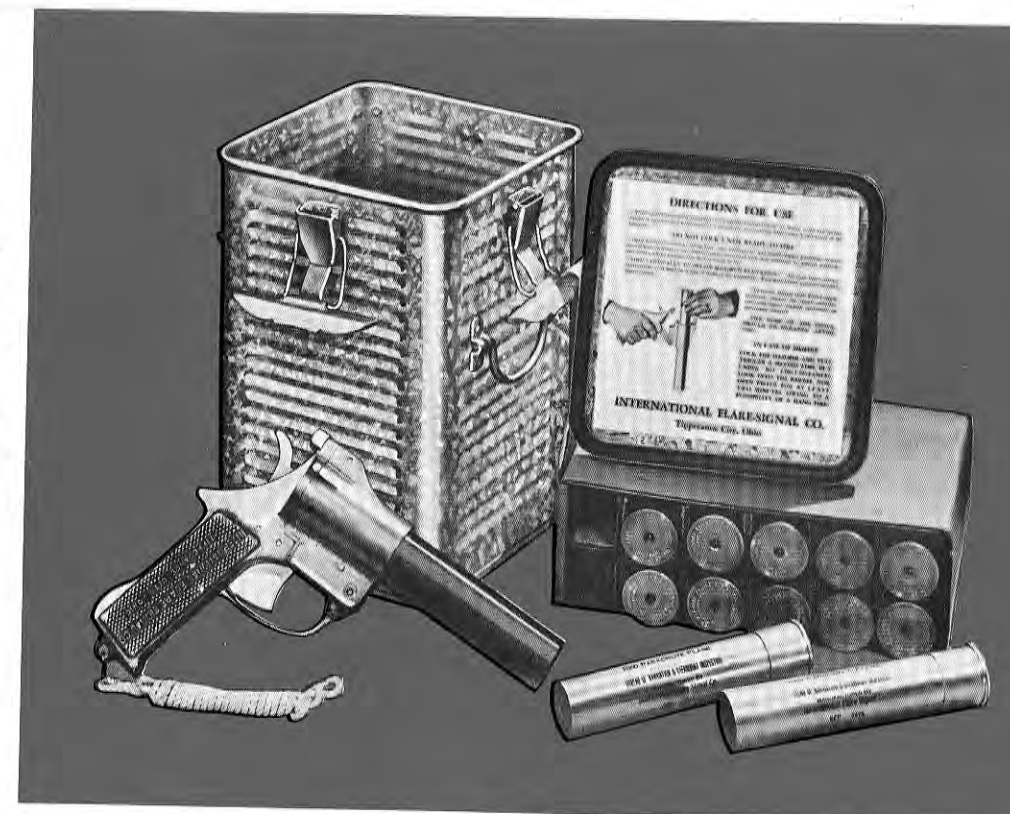
THIS CATALOG CONTAINS DESCRIPTIVE LITERATURE ON:

1. D-2-IR Hand Red Distress Signal U.S.C.G. No. 160,021 Cat. No. CG-3231
2. D-50-IO Hand Orange Smoke Distress Signal U.S.C.G. No. 160,037 Cat. No. CG-3234
3. Water Proof Copper Container (Holds 12 of Above Hand Signals) Cat. No. CG-3244
4. K-5 Floating Orange Smoke Distress Signal U.S.C.G. No. 160,022 Cat. No. CG-3241
5. K-500 Hand Held Rocket Propelled Red Parachute Distress Signal
U.S.C.G. No. 160,036 Cat. No. CG-3242
6. K-12 Waterproof Container (Holds 12 K-500 Signals) Cat. No. CG-3243
7. P-52-PR Parachute Red Flare Distress Signal U.S.C.G. No. 160,024 Cat. No. CG-3221
8. G-52-K 37mm Flare Pistol for P-52-PR U.S.C.G. No. 160,024 Cat. No. CG-3224
9. P-52-GR Complete Kit Parachute Red Flares and Pistol
U.S.C.G. No. 160,024 Cat. No. CG-3220
10. MK13 Mod. O Hand Combination Flare and Smoke Distress Signal
U.S.C.G. No. 160,023 Cat. No. CG-3256
11. G-52-CK Impulse Projected Rocket Line Throwing Appliance
U.S.C.G. No. 160,040 Cat. No. CG-3260

International blankets the Pleasure Boat field with a "Kilgore" Quality Distress
Signal Kit for every Boat from Outboard to Yacht. Available are Inexpensive Poly-
Bagged Kits for Small Boats to Deluxe Metal Cased Pistol Kits for larger Craft.
Write for Catalog.

INTERNATIONAL No. 52 MARINE DISTRESS SIGNAL KIT

FOR LIFEBOATS AND
OTHER MARINE CRAFT



APPROVED BY **U. S. COAST GUARD**

Brilliant parachute suspended flare reaches an altitude of 200 feet and burns with 30,000 candle power giving maximum visibility for many miles.

White flares provide extreme visibility and are useful in cases of a man over board, entering a strange harbor, locating a buoy, etc.

12 red flares are supplied with No. 52 kit unless your order specifies assorted colors.

No. 52 complete distress signal kit consists of: 1 approved 37 MM signal pistol with lanyard; 12 approved red parachute flares No. 3221; 1 approved water tight metal container; 1 card of instructions —

CATALOG NO.	ORDERING CODE	CASE PACK	SHPG. WT.
P-52-GR	3220	1 Kit	20 lbs.

To order pistol only specify:

Cat. No. G-52-K Order Code 3224, Packed 1 to a shipper, wt. 5 lbs.
Individual flares only can be ordered from stock in any quantities. See chart below:

FLARE SPECIFICATIONS

Catalog Number	Ordering Code	Color	Altitude Feet	Min. Burning Time	Candle Power	Case Pack	Shipping Weight
P-52-PR	3221	Red	200	30 Sec.	30,000	12	6
P-52-PG	3222	Green	200	30 "	30,000	12	6
P-52-PW	3223	White	200	30 "	30,000	12	6
P-52-PO	3226	Orange	200	30 "	Smoke	12	6



HARVELL-KILGORE CORP.

INTERNATIONAL FLARE-SIGNAL DIVISION

PHONE 901-658-5231

SALES OFFICE & PLANT
TOONE, TENNESSEE

PRINTED IN U.S.A.

INTERNATIONAL HAND

DISTRESS SIGNALS

U. S. COAST GUARD APPROVED

Light in weight and brilliant in performance makes this the most effective hand signal available. Exceptionally bright colored flame of 500 C. P. can be seen for miles. D-50-10 orange signal gives off dense cloud of heavy orange smoke giving miles of daytime visibility.

Each signal is individually chemically treated to make it impervious to moisture and for double protection is individually packaged in water proof poly bag.

SPECIFICATIONS

Catalog Number	Ordering Code	Color	Candle Power	Burning Time	Case Pack	Shipping Weight
D-2-1R	3231	Red	500	120 Sec.	72	30 lbs.
D-2-1W	3246	White	500	120 "	12	6 "
D-1-1B	3238	Blue	500	60 "	12	6 "
D-50 10	3234	Orange	Smoke	50 "	72	23 "



APPROVED BY
U. S. COAST GUARD



HARVELL-KILGORE CORP.

INTERNATIONAL FLARE-SIGNAL DIVISION

SALES OFFICE & PLANT
TOONE, TENNESSEE

PHONE 901-658-5231



**DOUBLE
WATERPROOFED
FOR COMPLETE
PROTECTION**

IDEAL FOR YACHTSMEN, BOATING ENTHUSIASTS, FISHERMEN, PRIVATE & COMMERCIAL PILOTS

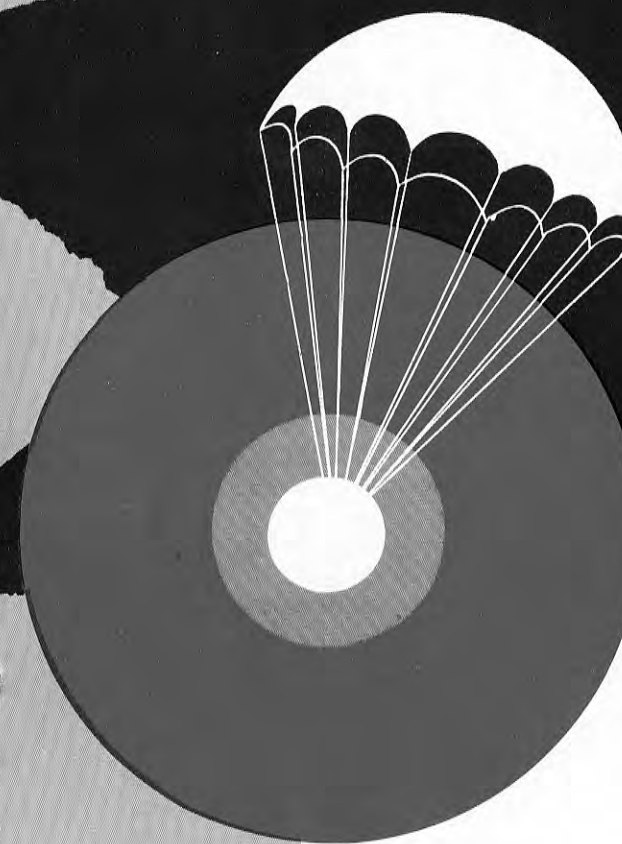
INTERNATIONAL K-500

**HAND-HELD
ROCKET-PROPELLED
PARACHUTE RED FLARE**

DISTRESS SIGNAL

"Patent Applied for."

No Flare Pistol Required!



In ditching operations, forced landings and shipwrecks, flares are often separated from flare pistols and become useless. Here's the simple answer to that problem . . . a new distress signal self-contained in its own launcher . . . no pistol required!

Each signal is packed as a complete unit in an individual watertight container always ready for instant use. When necessary to fire a flare, just remove end covers on the disposable launcher, hold firmly in upright position and pull trigger ring at the bottom of the launcher.

The signal projectile when fired vertically attains an altitude of 500 feet minimum and remains well under the average overcast. The pyrotechnic candle, suspended by parachute, then develops a 20,000 candle power light for a minimum of 30 seconds.

Approved and specified by U. S. Coast Guard for life boats and inflatable life rafts.
U.S.C.G. Approval No. 160.036
Ordering Code No. CG3242



HARVELL-KILGORE CORP.

Toone, Tenn.
Phone 901-658-5231

INTERNATIONAL FLARE-SIGNAL DIV.

1. Closing Cap on launcher.

2. Double Duty Cap.
Closes parachute and candle assembly case.
Folds parachute and candle in case.

3. Parachute.

4. Candle.

5. Delay Charge.

6. Rocket Composition.
Driving force of the signal which cuts in after rocket gets approximately 10 feet away from the operator.

7. Rocket Case.
Case encloses the rocket, candle and parachute and is therefore the ascending missile.

8. Housing for Apertures of Jets on Rocket.
These apertures are drilled at an angle and the escaping gases of the rocket accentuate spinning or rotary motion.

9. Rifling in Mortar.
Initial expulsion sends the rocket forward with rotating or spinning motion due to rifling.

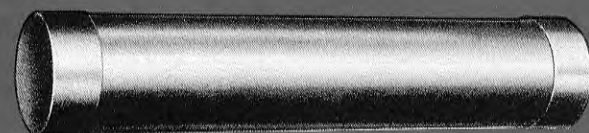
10. Firing Mechanism.
This trigger is not cocked. A ring with string attached to trigger cocks and releases the trigger.

11. Closing Cap for Firing Mechanism End of Case.
Protects trigger and closes lower end of mortar which contains signal ready for action.

HAND-HELD, ROCKET-PROPELLED PARACHUTE RED FLARE DISTRESS SIGNAL

- COLOR—Vivid Red
- PACKAGED—12 to a carton
- PARACHUTE DESCENT—not more than 15 feet per second in still air.

The launcher serves the purpose of a pistol. The firing mechanism is attached to launcher. Trigger is always in the safe position until the operator is ready to fire. When operator desires to use signal, caps or closures are removed from each end of launcher. Trigger end cover is removed last. Grasp launcher in either hand and with arm horizontal to the ground, signal pointing vertically upwards with opening end pointing skyward. Grasp ring attached to string which is in turn fastened to the firing mechanism. When ready to fire, pull the string downward. This cocks the trigger and simultaneously fires the signal.



First expulsion carries the rocket skyward. The second expulsion in flight expels the candle and parachute case. The third expulsion ignites and expels the candle, and the parachute opens due to resistance to this force.



HARVELL-KILGORE CORP.

TOONE, TENN.

PHONE 901 - 658-5231

INTERNATIONAL FLARE-SIGNAL DIV.

Litho in U. S. A.

Form No. 2050

U.S. NAVY-MARK 13 MOD. 0

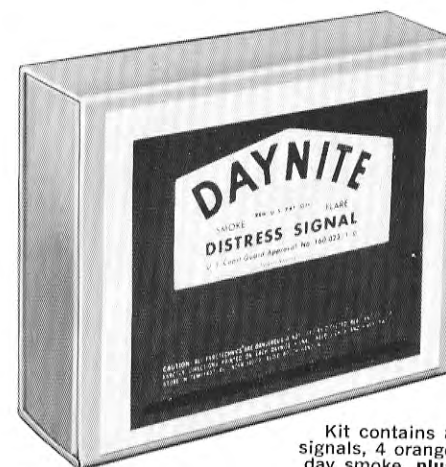
DAYNITE

...Smoke & Flare COAST GUARD APPROVED DISTRESS SIGNALS



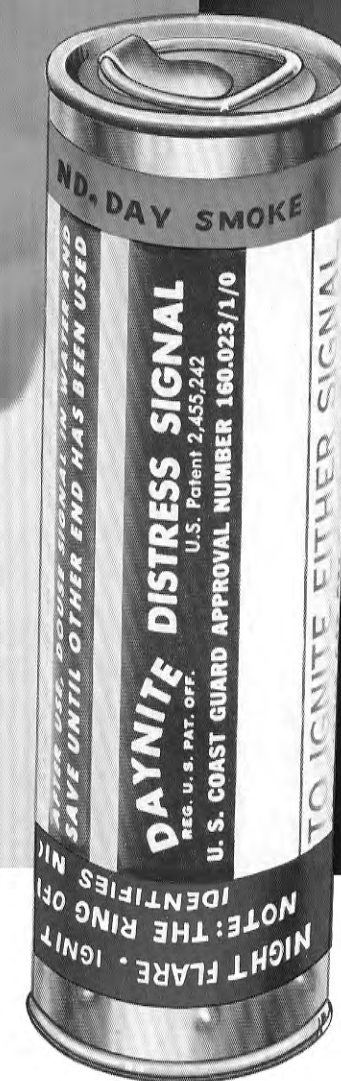
For daytime, one end ejects a dense cloud of high visibility ORANGE SMOKE vividly seen for miles.

For night time, the opposite end burns a brilliant RED FLARE visible for many miles.



Cat. No. CG 3257

Kit contains 8 signals, 4 orange day smoke, plus 4 night flares



Cat. No. CG 3256

Thousands of business firms and civilians need the positive protection of this low cost never-failing day and night emergency distress signal. It combines two powerful high-visibility signals in one compact watertight container ready for instant use—day or night. Cannot be extinguished by wind or water.

HARVELL-KILGORE CORP.
INTERNATIONAL FLARE-SIGNAL DIV.

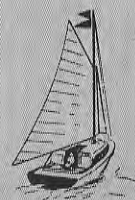


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AC 901-658-5231

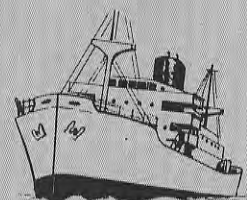
DAYNITE

SMOKE and FLARE
DISTRESS SIGNALS

Hand Held, Convenient and Compact, used on...



YACHTS and LIFE RAFTS



STEAMSHIPS



AIRCRAFT

Compact Package Of Double Protection

Here is the answer to the need for a compact, positive distress signal that civilians can instantly use in the daytime or at night time. This U.S.C.G. Approved (#160.023) Signal has been war time proved and accepted the world over as the standard distress signal by aircraft and ships.

DAYNITE has every desired feature to assure a dependable means of signalling for help at any instant around the clock. Each end of the container is independently identified by color and ignited by a separate pull-ring fuse that never fails — sets off a powerful signal that is visible as far as the eye can see.

For daytime — one end emits a vivid cloud of orange smoke that is easy to see for miles and miles.

For nighttime — the other end is a blinding bright red flare beacon easily seen for miles.

- Compact, hermetically sealed steel container is only 5 1/8" x 1 5/8". Weighs less than 7 ounces.
- Easily held in the hand — keeps cool in the hand until spent, thanks to the double wall protection.
- Absolutely watertight.
- To ignite—simply pull ring which breaks watertight seal and automatically ignites desired signal.
- When ignited—the signal will even burn under water ... can't be extinguished by wind or waves.
- One end can be doused when spent without affecting the opposite end operation.
- Service life is 3 years from date stamped on label.

Stock And Push This Low Cost Safety "Must" For Thousands Of Uses

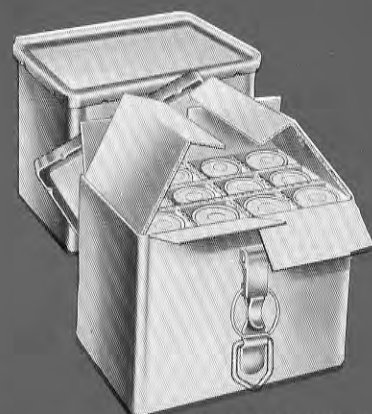


HARVELL-KILGORE CORP.

INTERNATIONAL FLARE-SIGNAL DIV.

Toone, Tenn.

AC 901-658-5231



U.S. NAVY ALUM. CASE
COST ON REQUEST

PRINTED IN U.S.A.

"INSURANCE" FOR MERCHANT SHIPPERS, YACHTSMEN
HIGHLY VISIBLE • LONG-LASTING • EASY-TO-USE

**FLOATING
ORANGE SMOKE**

DISTRESS SIGNAL

**FOR
OCEAN-GOING
VESSELS**

FOR USE WHEN
RESCUE CRAFT IS SIGHTED

MEETS U. S. COAST GUARD
SPEC. 160,022

A "must" for the lifeboats of every merchant vessel at sea. Puts out a steady cloud of bright orange smoke highly visible in even dirtiest weather. Emits smoke for minimum of 4 minutes, maximum of 5 minutes ... can be seen in clear weather with the naked eye by a spotter in an aircraft 5 miles away flying at 5,000 feet. Discharges smoke at a constant rate, operates efficiently even in heavy seas.

Watertight, corrosion-resistant container protects smoke-generating chemicals. Combustible contents won't deteriorate during long storage, or when subject to frigid or tropical climates. Fool-proof igniter system fires in all weather. Packed two canisters to the carton.

Sturdy canisters may be easily stowed in lifeboats for best possible daytime distress signal. To operate, remove canister top, pull igniter ring and throw into sea well to the leeward.



KILGORE, INC.,

International Flare Signal Div.
TOONE, TENNESSEE



FLOATING ORANGE SMOKE DISTRESS SIGNAL

CONTAINERS Cylindrical canister 7" in diameter, 10" in length. Corrosion-resistant to salt water and spray. All seams hook-jointed and soldered. Entire container covered with two coats of gray waterproof paint. Special air chamber keeps canister afloat even in heavy seas.

IGNITER MECHANISM Entire system protected with easily removable watertight cover of corrosion-resistant material. Fires in the most unfavorable weather. Is in no way dangerous to operator.

SMOKE-PRODUCING COMPOSITION Chemicals will not deteriorate when subjected to long storage or in frigid or tropical climate or both. Emits smoke at a uniform rate in rough as well as smooth water.

Develops smoke for a minimum of 4 minutes, maximum of 5 minutes.
Emits smoke even when under water.
Marking—operating instructions plainly marked on canister.



KILGORE, INC.
International Flare Signal Division
TOONE, TENNESSEE

IGNITER

SCREW CAP
Corrosion-resistant.

PROTECTIVE HOOD

Keeps combustible material safe even in heavy seas.

PULL IGNITER RING
Fool-proof ignition system.

COMBUSTIBLE MATERIAL

Ignites under any conditions.

AIR SPACE

Necessary to make canister float.

BALLAST

Fire clay to maintain center of gravity and keep canister floating upright.



KILGORE

TOWLINE ROCKET APPLIANCE & EQUIPMENT

The Kilgore Towline Rocket Appliance has been approved by the U. S. Coast Guard — under Certificate of Approval 160.040/1/0. Its convenience, ease and speed of assembly, compactness and one man operation are outstanding advantages.

It carries a regular 7/32" to 9/32" diam. manila shot line from 300 to 350 yards using the regular rocket harness — or from 275 to 325 yards using the floating type harness. A 1/2" diam. line can be shot approximately 200 yards.

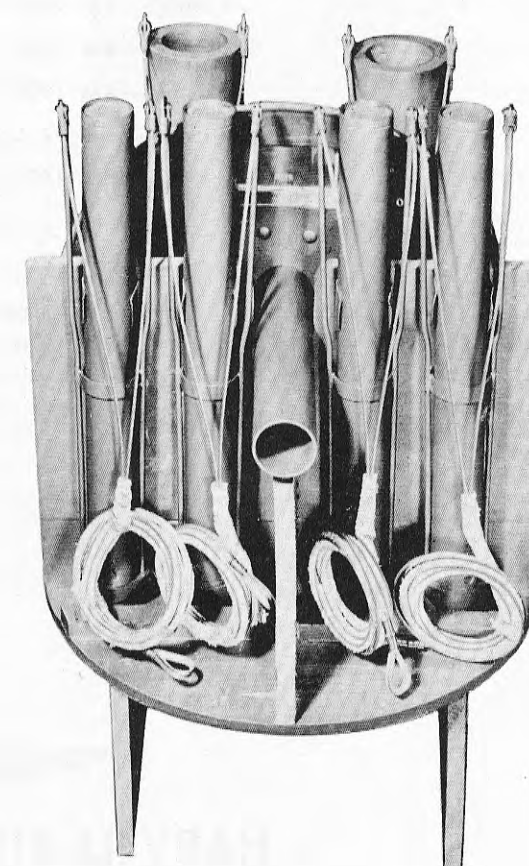
Appliance, ready for firing, weighs only 26 lbs. In operation, one man can assemble the unit for firing in a matter of minutes. It is fired from a hand-held, standing position (no stanchions required). Large diameter flash plate provides full protection. Line tub or faking box (not furnished) is placed about six feet in front with a fair lead of shot line. Target is sighted through window in flash plate — then appliance is elevated between 25° and 30° (depending on wind conditions) and the rocket fired. Rocket assembly is propelled immediately after pulling trigger.

In addition to the 4 regular harnesses furnished, 2 floating harnesses are included. Rocket is easily changed from one type harness to the other.

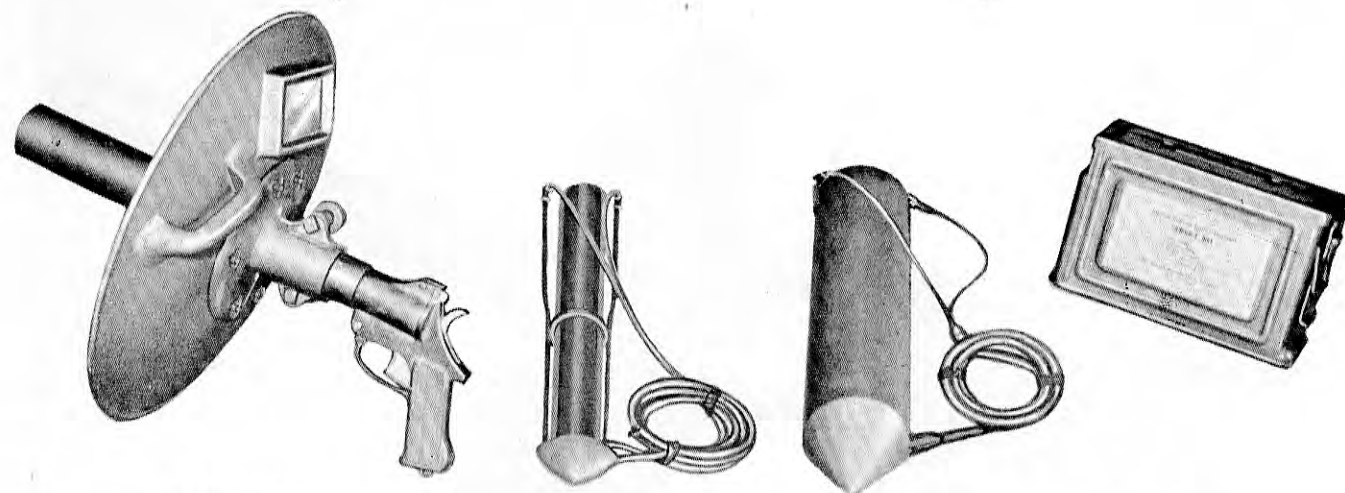
Each unit complete is tightly and compactly stored, as shown at right, within a 55 gal. size steel drum. Drum has water-proof, rubber gasket head.

COMMERCIAL USES

In addition to distress use, this unit is ideal for all types of line throwing. It can be used to great advantage by telephone, telegraph, electric and construction companies when stringing wires across gorges or over streams. In one fast operation — the rocket will span obstacles with a towline to which the service lines can be attached and quickly pulled across.



SEE PARTS LIST AND SPECIFICATIONS ON OTHER SIDE



Appliance

Rocket with
Standard Harness

Buoyant
Harness

Service Kit

Illustrated above are the individual items, excepting steel drum container, that make up the GR 52 CK Kilgore Towline Rocket Appliance and Equipment. The individual items are furnished in the following quantities:

- 1 only — KM 1911 A Appliance (includes pistol, adaptor, flash plate and barrel)
- 4 only — GR 52 TL Rocket with standard harness
- 2 only — KM 1907 A Harness, water buoyant
- 1 only — KM 1921 C Service Kit containing the following items:
 - 1 only — KM 1921 CA Brush and Handle
 - 1 only — KM 1921 CB Pint Oil Can
 - 12 only — KM 1921 CC Wiping Patches (18" x 18")
 - 6 only — GR 52 C Cartridges, primer-ejector
 - 1 only — KM 1921 CD Friction Tape

SPECIFICATIONS (Complete Unit)

CODE NO.	SHIPPING WEIGHT	SHIPPING CONTAINER	DIMENSIONS
GR 52 CK	140 Lbs.	55 Gal. Steel Drum	24" Diam. 35" High



HARVELL-KILGORE SALES CORP.

INTERNATIONAL FLARE-SIGNAL DIV.

PLANT
Bolivar, Tenn.
Phone 4311

SALES OFFICE
673 Clarence St.
Los Angeles 23, Calif.
ANGelus 2-8395

Printed in U.S.A.



HARVELL-KILGORE CORPORATION



INTERNATIONAL FLARE-SIGNAL DIVISION

Sales Office & Plant: Toone, Tennessee — Phone 901-658-5231

PRICE LIST

U. S. COAST GUARD APPROVED MARINE SIGNALING EQUIPMENT

EFFECTIVE JANUARY 1, 1964

CATALOG NO.	DESCRIPTION	CASE PACK	LBS. PER CASE	LIST PRICE
CG-3220	P-52-GR—No. 52 Complete Unit	1	20	\$168.00 each
CG-3221	P-52-PR—37 m/m Parachute Marine Signal - Red	1 doz.	6	79.00 doz.
CG-3224	G-52-K—No. 52 Pistol	1	5	66.00 each
CG-3225	G-52-C—No. 52 Watertight Container	1	8	23.00 each
CG-3241	K-5—Floating Orange Smoke (2 in a carton)	2	10	16.00 each
CG-3242	K-500—Hand Held Rocket-Propelled Parachute Red Flare	12	15	23.00 each
CG-3243	K-12—Container (Holds 12 only K-500)	1	6	15.00 each
CG-3231	D-2-IR—International Friction Ship Signal - Red	6 doz.	30	16.20 doz.
CG-3234	D-50-IO—International Friction Ship Signal—Orange Smoke	6 doz.	23	16.20 doz.
CG-3244	Copper Container for 12 Friction Ship Signals	1	6	20.00 each
CG-3256	Mk 13—Mod O—Day-Nite Signal—Metal Case	25	12	7.80 each
CG-3257	Mk 13—Mod O—Day-Nite Signal (4 units—8 signals)	1	2	31.50 Set

ROCKET LINE THROWING APPLIANCE

CATALOG NO.	DESCRIPTION	CASE PACK	LBS. PER CASE	LIST PRICE
CG-3260	GR-52-CK—Complete Line Throwing Rocket Appliance with accessories and shipping/storage container Consists of:	1	128	\$550.00 each
CG-3261	4 only GR-52-TL—Rockets with standard harnesses	1	12	150.00 Set 4
CG-3262	2 only KM-1907-A—Harness, water buoyant	1	10	94.00 Set 2
CG-3263	1 only KM-1911-A—Appliance (assembly of pistol, adaptor, flashplate, & barrel)	1	35	230.00 each
CG-3264	1 only KM-1921-C—Kit (consists of following):	1	8	28.00 each
-3214	1 only K-25—Container	1	5	8.30 each
-3265	1 only KM-1921-CA—Brush and Handle	1	1	7.50 each
-3266	1 only KM-1921-CB—Pint Can and Oil	1	1	1.00 each
-3267	12 only KM-1921-CC—Wiping Patches (8x8)	12	2	3.70 Set 12
-3268	6 only GR-52-C—Cartridges	6	1	6.00 Set 6
-3269	1 only KM-1921-CD—Friction Tape	1	1	1.80 each
CG-3273	Drum & Furniture	1	20	48.00 each
CG-3270	Harness only	1	4	10.00 each
CG-3271	Rocket only	1	10	28.00 each

GENERAL NOTES

- Prefix "CG" denotes Coast Guard Approved—Date of Coast Guard Acceptance stamped on item—Approved Life Three (3) Years
- All Pistol and Hand Projector items listed are exempt from Fire Arms License requirements.
- Shipment of Flare items generally restricted to truck or rail express.
- All prices subject to change without notice.

TERMS 1% 10 DAYS—NET 30—ALL PRICES F.O.B. TOONE, TENN.

BACKGROUND OF EXPERIENCE

Specialists In Military Pyrotechnics For Half A Century

During World War I and II the requirements for military pyrotechnics increased at a more rapid rate than productive capacity. Technical advances in military equipment and industrial requirements for improved items in this field thrust a challenge on the pyrotechnical industry. Kilgore's research laboratories, staffed with the best pyrotechnicians of the nation, met the challenge with the ability to adjust their designs to meet new conditions.

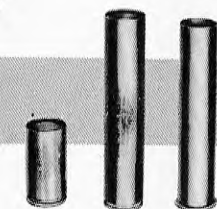
Two lines of development are illustrated to show how Kilgore met this challenge from its infancy to the present day in flares and smoke signals for land, sea and air use.

In flares, the Very Signal was developed to a system of flares that furnish over a million candle power light intensity. A line of drift signals or marine markers was developed to emit smoke and light for a period in excess of one hour.

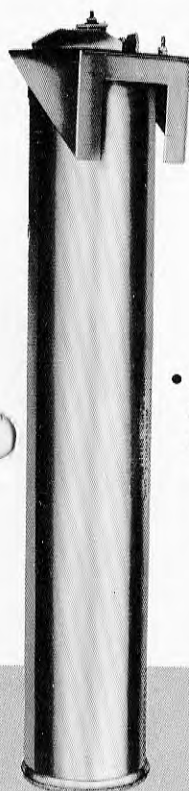
This illustrates Kilgore's capacity to meet new needs and conditions with pyrotechnic devices of proven quality.

The accompanying illustrations represent just a few of the numerous items developed for peace time needs and used in periods of national emergency.

This challenge has been met for over fifty years with the skill, background and technical ability of our personnel. An eminent position in the research and development of land, aviation and marine signals has been reached and is currently recognized by all branches of the military services and the U. S. Coast Guard.



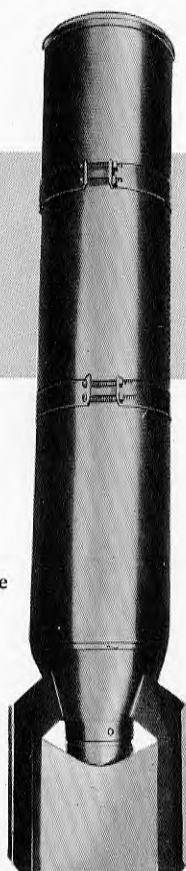
- Star Signal
- Parachute Red Flare Signal
- Parachute White Flare Signal



- 3-min. Landing Flare



- Hand held Rocket Signal



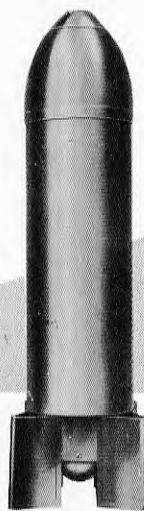
- 30-min. Smoke Signal



- Mk. 4 Floatlight



- Mk. 5 Floatlight



- Mk. 6 Floatlight (Type 1.)



- Mk. 6 Floatlight (Type 2.)



- Marine Marker (Type 3.)



- Towline Rocket